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Accession #: 16 AD #: 0  
TITLE: HEDS Avionics Support - Error Detection & Analysis

Author(s): K.H. Kim, Prof.  
Date: 03/01/86 Pages:76 Report #: 0  
Corp. Author: Dpet. of Computer Sci. & Eng., Univ. Of South Florida, Tampa, FL 33620  
Index Terms: Microcomputer Science Technology Defense Exploration  
Application NASA Development Interceptor Launch Configuration

Accession #: 281 AD #: 0  
TITLE: Transportable Programming Language Systems For Distributed Environments

Author(s): de Maine, P.A.D.  
Date: 08/15/88 Pages:100 Report #: BMDTPL.F05  
Corp. Author: Auburn Univ., Auburn Univ. AL 36849

Index Terms: Transportation Language Compiler Target Architecture Parameter  
Conversion Technology Analysis COBAL PASCAL FORTRAN

Accession #: 569 AD #: 0  
TITLE: SDI Software Technology Program Plan

Author(s): Jo Linn, C.; Redwine, S.T., Jr.  
Date: 06/08/87 Pages:55 Report #: IDA P-1926  
Corp. Author: Inst. For Defense Analyses, 1801 N. Beauregard St., Alex., VA 22311  
Index Terms: SDIO Technology DoD Production (BM/C3) Battle Management  
Command Control Communication Weapon

Accession #: 580 AD #: 0  
TITLE: Battle Management Algorithms, Task/Milestone Report: Algorithm Specification

Author(s): 0  
Date: 02/15/87 Pages:60 Report #: LSIS870047  
Corp. Author: Logicon

Index Terms: Mission Threat Weapon Target Execution Satellite Arc Node  
Algorithm Solution Orbit Construction Space Battle Management

Accession #: 582 AD #: 0  
TITLE: Decision to conduct Demonstration/Validation tests of the Battle Management/Command and Control, and Communication (BM/C3).

Author(s): Grahm, J.L., Jr.  
Date: 07/31/87 Pages:003 Report #: 0  
Corp. Author: SDIO, U.S. Department Of Defense

Index Terms: DoD Testing Simulation Analysis Policy (BM/C3) Battle  
Management/Command Control Communication Validation

Accession #: 583 AD #: 0  
TITLE: Executive Summary and Final Report for Hostile Booster Trajectory Estimation

Author(s): Wright, J.R.  
Date: 05/29/87 Pages:55 Report #: RADC/ATA Task No. 001  
Corp. Author: Applied Technology Associates, Inc. of Delaware

Index Terms: Algorithm Testing Trajectory Performance Prediction Accuracy  
Linearization Simulation Noise Filter Error Hostile Booster



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Accession #: 584 AD #: 0  
TITLE: Monthly Status Report And Data Accession List for Period Ending 21  
August 1987  
Author(s): Kinney, R.M.S.  
Date: 09/08/87 Pages:17 Report #: ULW-7-G-494  
Corp. Author: Sparta, Inc., 7926 Jones Branch Drive, McLean, Virginia  
22102-3303  
Index Terms: Calculation Simulation GBL (Ground Based Laser) Mission Attack  
Defense Battle Threat Cycle Life

---

Accession #: 586 AD #: 0  
TITLE: Outline for SDI Security Policy  
  
Author(s): 0  
Date: 06/19/87 Pages:15 Report #: CDRL-J001  
Corp. Author: Sparta Inc., 7926 Jones Branch Drive, McLean, Virginia 22102  
  
Index Terms: Concept Policy Security Hostile Peace Research Force Command  
Control Threat Battle Deployment

---

Accession #: 597 AD #: 0  
TITLE: Communications Networking For SDI Applications  
  
Author(s): Powell, N.; Gonnella, J.; Gleich, J.  
Date: 02/01/87 Pages:70 Report #: RADC-TR-86-220  
Corp. Author: Rome Air Development Cntr., AFSC, Griffiss Air Force Base, NY  
13441-5700  
Index Terms: Communication Residue Core Networking Signal Function Scaling  
Optimal CRT (Chinese Remainder Theorem)

---

Accession #: 598 AD #: 0  
TITLE: Data Accession List for Period of 31 Aug., 1987  
  
Author(s): 0  
Date: 08/31/87 Pages:12 Report #: MCR-87-503-09  
Corp. Author: Martin Marietta Corporation, P.O. Box 179, Denver, CO 80201  
  
Index Terms: SDIO

---

Accession #: 602 AD #: 0  
TITLE: A New Multi-Target Tracking Model  
  
Author(s): Gottsschalk, T.D.  
Date: 06/02/87 Pages:30 Report #: 0  
Corp. Author: California Institute of Technology, Pasadena, California 91125  
  
Index Terms: Target Trajectory BM/C3 Kinematic Hypercube Algorithm  
Evolution Surveillance Weapon

---

Accession #: 603 AD #: 0  
TITLE: SDI System Requirements and Rationale  
  
Author(s): Hall, R.W.  
Date: 09/15/87 Pages:201 Report #: SIAC No. 1-051-04-461  
Corp. Author: SIAC, 1710 Goodridge Dr., P.O. Box 1303, McLean, Virginia  
22102  
Index Terms: Design SDI Command Control Mission Transformation Surveillance  
Tracking Discrimination Target Support

---

Accession #: 604 AD #: 0  
TITLE: Data Accession List for Period of June 30 1987  
  
Author(s): Vocelka, D.J.  
Date: 06/30/87 Pages:09 Report #: MCR-87-503-07  
Corp. Author: Martin Marietta Corporation, P.O. Box 179, Denver, CO 80201  
  
Index Terms: SDI Army

---

Accession #: 627 AD #: 0  
TITLE: Bimonthly Status Report for Period Ending June 23, 1987  
  
Author(s): Kinney, R.M.S.  
Date: 07/15/87 Pages:16 Report #: ULW-7-SDI-457  
Corp. Author: Sparta, Inc., 7926 Jones Branch Drive, McLean, Virginia  
22102-0210  
Index Terms: Simulation Threat Mission Sensor Evaluation Planning  
Deployment Analysis Battle Response

---

Accession #: 673 AD #: 0  
TITLE: Computing Development System (Codes): June 1987  
  
Author(s): 0  
Date: 06/01/87 Pages:002 Report #: CR-27-1357  
Corp. Author: General Research Corporation, 307 Wynn Drive, Huntsville, Al  
35805  
Index Terms: Support Computation Methodology Concept SDI

---

Accession #: 674 AD #: 0  
TITLE: Strategic Defense Initiative BM/C3 Working Group for Standards,  
Functional Decomposition: July 1987  
Author(s): 0  
Date: 09/01/86 Pages:33 Report #: 0  
Corp. Author: AFSC, Electronics System Division, Hanscom AFB, MA 01731  
  
Index Terms: Battle Management Defense Communication SDIO Command  
Surveillance Future Analysis Automation

---

Accession #: 711 AD #: 0  
TITLE: Experimental Investigation Of The Momentum Transfer Associated With  
Impact Into Thin Aluminum Targets  
Author(s): Nysmith, R.; Denardo, P.  
Date: 10/01/69 Pages:16 Report #: NASA TN D-5492  
Corp. Author: NASA Ames Research Center, Moffett Field, CA 94035  
  
Index Terms: Transfer Impact Aeronautic Velocity Nitrogen Projectile Blast  
Research Polyethylene Transition

---

Accession #: 732 AD #: 0  
TITLE: ABM Treaty Controversy: Crossroads for Arms Control  
  
Author(s): Lowry, M.; Conlon, R.P.  
Date: 02/24/87 Pages:19 Report #: 100-4  
Corp. Author: U.S. House of Representatives, Democratic Study Group,  
Washington, DC 20515  
Index Terms: ABM Treaty Arms Control Ballistic Missile Development  
Deployment Cost Star Wars Negotiation Geneva Soviet Union

---

Accession #: 812 AD #: 0  
TITLE: Software Development Structure: Program Plan

Author(s): Jones, G.M.  
Date: 07/01/87 Pages:80 Report #: CDRL A015/B009  
Corp. Author: TRW System Development Division, 213 Wynn Drive, Huntsville,  
AL 35805  
Index Terms: Control PLanning Design Support Methodology Algorithm  
Integration Testbed Conversion

Accession #: 813 AD #: 0  
TITLE: Software Development Structure: Technical Report, Research and  
Development Status Report  
Author(s): Jones, G.M.  
Date: 07/15/87 Pages:08 Report #: CDRL A016/B010  
Corp. Author: TRW System Development Division, 213 Wynn Drive, Huntsville,  
AL 35805  
Index Terms: Computation Design Conversion Data Translation Language  
Algorithm Software Methodology Analysis Logic Traffic

Accession #: 814 AD #: 0  
TITLE: Strategic Defense Initiative BM/C3 Architecture Study - Phase II,  
Vol. II, Part 1  
Author(s): 0  
Date: 02/26/87 Pages:264 Report #: CSD-TR1202A  
Corp. Author: Ford Aerospace and Comm. Corp., 10440 State Hwy. 83, Colorado  
Springs, CO 80908  
Index Terms: SDI Battle Management Command Control Communication  
Development Analysis Concept Terminal ICBM Launch Node Network

Accession #: 816 AD #: 0  
TITLE: Significant Activities of the SAIC Team on the Systems Architecture  
and Key Trades (SAKT) Study for May and June 1987  
Author(s): 0  
Date: 07/20/87 Pages:13 Report #: 0  
Corp. Author: SAIC, 1710 Goodbridge Drive, P.O. Box 1303, McLean, Virginia  
22102  
Index Terms: Defense Leadership Evaluation Documentation SDIO Methodology

Accession #: 817 AD #: 0  
TITLE: Significant Activities of the SAIC Team on the Systems Architecture  
and Key Trades (SAKT) Study for September 1987  
Author(s): Patterson, K.E.  
Date: 10/21/87 Pages:08 Report #: 0  
Corp. Author: SAIC, 1710 Goodbridge Drive, P.O. Box 1303, McLean, Virginia  
22102  
Index Terms: Analysis Survivability Mission Communication Sensor  
Configuration Hypervelocity Simulation

Accession #: 818 AD #: 0  
TITLE: Integrated Architecture Analysis Document Outlines for September 15,  
1987  
Author(s): Antsen, P.B.  
Date: 09/15/87 Pages:76 Report #: 1-051-04-461  
Corp. Author: SAIC, 1710 Goodridge Drive, P.O. Box 1303, McLean, Virginia  
22102  
Index Terms: Strategy Mission Goal Force Defense Concept Deployment Threat  
Target Battle Soviet Union

Accession #: 819 AD #: 0  
TITLE: Distributed Computing Design System: A Technical Overview

Author(s): Baker, L.  
Date: 07/25/87 Pages:90 Report #: CDRL-B003  
Corp. Author: TRW, 213 Wynn Drive, Huntsville, AL 35805

Index Terms: Concept Design Module Development Implementation Language  
Methodology

Accession #: 820 AD #: 0  
TITLE: Hazard Analysis For The Breakup Of Satellites 16937 And 16938

Author(s): Anz-Meador, P.D.; Talent, D.L.; Rast, R.H.  
Date: 02/27/87 Pages:150 Report #: JSC-22471 (U)  
Corp. Author: Nat. Aeronautics And Space Admin., L.B.J. Space Cntr.,  
Houston Texas  
Index Terms: Mission Velocity Linear Radar Meteor Orbit Optical Collision  
Kinetic Altitude Cloud Detection Explosion

Accession #: 822 AD #: ADA176194  
TITLE: Compressive Properties and Laser Absorptivity of Unidirectional  
Metal Matrix Composites

Author(s): Chang, D.L.; Steckel, G.L.; Hanna, W.D.; Izaguirre, F.  
Date: 09/30/86 Pages:30 Report #: SD-TR-86-81  
Corp. Author: Aerospace Corp., El Segundo, CA 90245

Index Terms: Matrix Metal Laser Test Calorimeter Wavelength Micrometer

Accession #: 833 AD #: 0  
TITLE: Draft Agenda for the Task 5.1 Review Schedule for September 24, 1987

Author(s): Ansten, P.B.  
Date: 09/15/87 Pages:03 Report #: 1-051-04-461  
Corp. Author: SAIC, 1710 Goodbridge Drive, McLean, Virginia 22102

Index Terms: Mission Baseline Threat Methodology

Accession #: 834 AD #: 0  
TITLE: Additional Presentation Material From The 21 April, 1987 NPB Program  
Planning Meeting

Author(s): 0  
Date: 04/21/87 Pages:130 Report #: 0  
Corp. Author: Strategic Defense Initiative Organization, Washington, D.C.

Index Terms: Battle Command Control Technology Communication Mission  
Philosophy Sensor Space Scenario Research Logistic

Accession #: 852 AD #: 0  
TITLE: A Meta Compiler For Very High-Level Language In Battle Management

Author(s): Andrews, M., Dr.; Hodge, M.  
Date: 07/01/87 Pages:56 Report #: FTR0061-1  
Corp. Author: Space Tech Corporation, 2324 Manchester Court, Fort Collins,  
CO 80526

Index Terms: Global SDI Allocation Retarget Reduction Solution Formulation  
Meta Algorithm Microcode

Accession #: 866 AD #: 0  
TITLE: What Can The Computing World Contribute To SDI ?

Author(s): Boehm, B.  
Date: 0 Pages:27 Report #: 0  
Corp. Author: TRW

Index Terms: Challenge Technology Sensor Intelligence Weapon Control  
Strategic Defense Force Countermeasure Logistic Test

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Accession #: 872 AD #: ADA176368  
TITLE: Coordinate Conversion Algorithm for Multisensor Data Processing

Author(s): Shank, E. M.  
Date: 08/05/86 Pages:46 Report #: ATC-139  
Corp. Author: Mass. Inst. of Tech., Lincoln Laboratory, Lexington, MA  
02173-0073

Index Terms: Conversion Projection Aircraft Surveillance Multisensor  
Altitude Stereographic Error Transformation Conic

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Accession #: 897 AD #: 0  
TITLE: SDI Midcourse Tracker/Correlator Algorithm Development

Author(s): Erbacher, J.; Belkin, B.; Askin, K.  
Date: 0 Pages:11 Report #: 0  
Corp. Author: 0

Index Terms: Battle Testbed Ballistic Missile Surveillance Target Kinematic  
Algorithm Cluster Detection SDI Sensor Explosion

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Accession #: 909 AD #: 0  
TITLE: Evaluation Of Parallel Architectures For BM/C3 Applications

Author(s): Das, C.R.; Lin, W.; Feng, T.; Thazhuthaveetil, M.J.  
Date: 02/01/88 Pages:98 Report #: RADC-TR-88-41  
Corp. Author: Penn. State Univ., Dept. of Elec. Eng., Univ. Park, PA 16802

Index Terms: Evaluation Computer Simulation Algorithm Communication  
Multiprocessor Analysis Hypercube

---

Accession #: 941 AD #: 0  
TITLE: Orbital Transfer Vehicle: Concept Definition & System Analysis Study  
- Final Report - Phase III Volume XI, Book 1-Exec. Summary 1988

Author(s): Andrews, D.  
Date: 05/01/88 Pages:33 Report #: NAS8-36107  
Corp. Author: Boeing Aerospace Company, P.O. Box 3999, Seattle, Washington  
98124-2499

Index Terms: Orbit Logistic Propellant Launch Integration Technology  
Configuration Aerothermodynamic Mars Test Insulation

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Accession #: 942 AD #: 0  
TITLE: SDI, The Soviet Investment Debate and Soviet Military Policy

Author(s): McConnell, J.M.  
Date: 04/20/88 Pages:16 Report #: 0  
Corp. Author: Department Of The Air Force

Index Terms: Soviet Union INF Treaty Military Policy Strategy Arms Control  
Reduction Weakness Deployment NATO Moscow Technology

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Accession #: 943 AD #: 0  
TITLE: R & D Status Report for August 1987

Author(s): Haflich, N.M.  
Date: 09/21/87 Pages:03 Report #: 0  
Corp. Author: U.S. Army Strategic Defense Command, 106 Wynn Dr.,  
Huntsville, AL 35807-3801  
Index Terms: Concept Design Test Evaluation Support Battle Management  
Simulation Manipulation

Accession #: 949 AD #: ADA178367  
TITLE: Optimal Aerodynamic Shapes for Hypervelocity Projectiles

Author(s): Hokenson, G. J., Dr.  
Date: 02/28/87 Pages:59 Report #: THC-02GH87021A  
Corp. Author: Hokenson Co., 840 S. Tremaine Ave., Los Angeles, CA 90005  
Index Terms: Hypersonic Aerodynamic Optimal Impact Trajectory Mission  
Projectile Hypervelocity Equation

Accession #: 950 AD #: ADA178328  
TITLE: Observations of High Current Electron Beam Interaction with the  
Atmosphere  
Author(s): Schneider, R. F.; Rhee, M. J.  
Date: 10/01/86 Pages:20 Report #: NSWC/TR-86-294  
Corp. Author: Naval Surface Weapons Center, 10901 New Hampshire Ave.,  
Silver Spring, MD 20903  
Index Terms: Velocity Conductivity Electron Beam Plasma Density Intensity  
Neutralization Discharge Dielectric Vacuum Voltage

Accession #: 951 AD #: ADA178176  
TITLE: Laser Materials for the 0.67 Micrometers to 2.5 Micrometers Range  
Author(s): Toda, M.; Zamerowski, T. J.  
Date: 03/01/86 Pages:55 Report #: RCA-PRRL-86-CR-4  
Corp. Author: RCA Labs., Princeton, NJ  
Index Terms: Detector Wavelength Vapor Laser Energy Semiconductor Emission  
Reactor Quantum Photodetector Pulse

Accession #: 952 AD #: ADA178021  
TITLE: Organizing for Military Space Operations  
Author(s): Myers, K. A., Col USAF  
Date: 05/01/86 Pages:30 Report #: AU-AWC-86-161  
Corp. Author: Air War College, Maxwell AFB, AL  
Index Terms: Air Force Geographic Space Policy Mission Training Satellite  
Military Command Security Employment Strategy

Accession #: 953 AD #: ADA177966  
TITLE: DoD Manual for Standard Data Elements  
Author(s): 0  
Date: 10/01/86 Pages:520 Report #: DIOR/DoD-S000.12-M  
Corp. Author: DoD, Washington Headquarters Services  
Index Terms: Data Code Regulation Implementation Security Research  
Configuration Logistic Military



Accession #: 954  
TITLE: Laser Doppler Velocimetry

AD #: ADA177833

Author(s): Wang, C. P.  
Date: 10/14/86 Pages:33 Report #: TR0086(6761)-1  
Corp. Author: Aerospace Corp., Space Systems Div., El Segundo, CA 90245

Index Terms: Velocity Oscillation Laser Application Heterodyne Optical

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Accession #: 955 AD #: ADA177575  
TITLE: Application of Differential Plane Statistics to Studies of C3 and Spread Spectrum Communications

Author(s): Pawula, R. F.  
Date: 05/14/86 Pages:004 Report #: AFOSR-TR-87-0210  
Corp. Author: Random Applications, Inc., 515 S. Junction Ave., Montrose, CO 81401

Index Terms: Binary Density Filter Equation Movement

---

Accession #: 956 AD #: ADA177555  
TITLE: Superconducting Augmented Rail Gun (SARG)

Author(s): Homan, C. G.; Cummings, C. E.; Fowler, C. M.  
Date: 01/01/87 Pages:17 Report #: ARCCB-TR-87001  
Corp. Author: Army Armament Research, Development and Eng. Cntr., Watervliet, N.Y. 12180-4050

Index Terms: Rail Gun Augmentation Design Circuit Coil Velocity

---

Accession #: 957 AD #: ADA177512  
TITLE: Radiation Shielding Requirements on Long-Duration Space Missions

Author(s): Letaw, J. R.; Clearwater, S.  
Date: 07/21/86 Pages:41 Report #: SCC-86-02  
Corp. Author: Severn Communications Corp., Severna Park, MD 21146

Index Terms: Solar Configuration Iron Dosage Aluminum Cosmic Radiation Shield Flare Exposure

---

Accession #: 958 AD #: ADA177508  
TITLE: Interchange Instability in Rail Gun Arcs

Author(s): Powell, J. D.  
Date: 01/01/87 Pages:33 Report #: BRL-TR-2776  
Corp. Author: Army Ballistic Missile Research Lab., Aberdeen Proving Ground, MD 21005-5066

Index Terms: Projectile Curve Calculation Wavelength Plasma Instability Propulsion

---

Accession #: 959 AD #: ADA177449  
TITLE: Gamma-Ray Laser Project - Proof of the Feasibility of Coherent and Incoherent Schemes for Pumping a Gamma-Ray Laser

Author(s): Collins, C. B.  
Date: 01/01/87 Pages:52 Report #: UTD-GRL-8601  
Corp. Author: Texas U. at Dallas, Richardson Center for Quantum Electronics

Index Terms: Fusion Radiation Gamma-ray Nuclear Physics Research Emission Wavelength Photon Population Energy Ratio

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Accession #: 960 AD #: ADA177448

TITLE: Multiple Coupled Waveguide Laser Array

Author(s): Youmans, D. C.

Date: 11/05/86 Pages:137 Report #: WJSA-FR-86-014

Corp. Author: W. J. Schafer Associates, Inc., 321 Billerica Rd.,  
Belmsford, MA 01824-4191

Index Terms: Laser Waveguide Infrared Coupling Array Analysis Radiation  
Configuration Optical Cavity Semiconductor

Accession #: 961

AD #: ADA177409

TITLE: Strategic Defense, Deterrence, and Arms Control

Author(s): Kober, S.

Date: 01/01/87 Pages:019 Report #: CNA-PP-445

Corp. Author: Center for Naval Analyses, Strategic Research Dept., Alex.,  
VA 22302-0268

Index Terms: Deterrence SDI Nuclear Balance ABM (Anti-Ballistic Missile)  
Logic Theory Atomic Bomb United States Watershed Military War

Accession #: 962

AD #: ADA177384

TITLE: Instability in a Multimode Free-Electron Laser - Effects of Electron  
Energy Drift

Author(s): Gallardo, J. C.

Date: 10/01/86 Pages:12 Report #: TR-71

Corp. Author: California U., Quantum Institute, Santa Barbara, CA 93106

Index Terms: Theory Oscillator Laser Saturation Decay Electron FEL (Free  
Electron Laser) Charge Energy

Accession #: 963

AD #: ADA177376

TITLE: Ordered Carbon-Metal Alloys for Extraterrestrial Power Systems

Author(s): Yeh, K. C.; Gillis, P. F.; Chen, J.

Date: 12/08/86 Pages:268 Report #: 862BC2ETPS

Corp. Author: Auburn U., Dept. of Mechanical Engineering

Index Terms: Metal Carbon Optical Spectrum Microscopy Metallography  
Compression Electron Specimen Evaluation Gas Alloy Research

Accession #: 964

AD #: ADA177370

TITLE: Free-Electron Laser Gain Degradation and Electron Beam Quality

Author(s): Colson, W. B.; Ballard, J. C.

Date: 02/17/87 Pages:20 Report #: TR-70

Corp. Author: California U., Quantum Institute, Santa Barbara, CA 93106

Index Terms: FEL (Free Electron Laser) Equation Degradation Spectrum Beam  
Optic Wave Motion Random Magnetic

Accession #: 965

AD #: ADA177367

TITLE: Population Inversions in Ablation Plasmas Generated by Intense  
Electron Beams

Author(s): Gilgenbach, R. M.

Date: 11/30/86 Pages:88 Report #: AFOSR-TR-87-0180

Corp. Author: Michigan U., Ann Arbor, MI 48109

Index Terms: Intensity Electron Beam Anode Plasma Spectroscopy  
Experimentation CRE (Collisional-Radiative Equilibrium)

Accession #: 966 AD #: 0  
TITLE: Proceedings Of The Strategic Defense Initiative Organization (SDIO)  
Tool Fair  
Author(s): Heystek, D.  
Date: 03/27/87 Pages:207 Report #: M-308  
Corp. Author: Inst. For Defense Analyses, 1801 N. Beauregard St., Alex., VA  
22311  
Index Terms: Automation Methodology Manipulation Evaluation Software  
Developmet Simulation

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Accession #: 967 AD #: 0  
TITLE: Determination of Beam Orientation of Optical Diagnostics of Excited  
200-Mev Hydrogen Atoms Resulting From Photodetachment of H-Ions  
Author(s): Herschcovitch, A.  
Date: 09/01/87 Pages:36 Report #: AFWL-TR-87-17  
Corp. Author: Brookhaven Nat. Lab, Assoc. Univ., Inc., Upton, New York  
11793  
Index Terms: Hydrogen Beam Alpha Photodetachment Radiation Atom Laser  
Cathode Decay

---

Accession #: 968 AD #: 0  
TITLE: The Star Wars Swindle: Hawking Nuclear Snake Oil  
  
Author(s): Reed, F.  
Date: 05/01/87 Pages:09 Report #: 0  
Corp. Author: 0  
  
Index Terms: Defense Electronic Laser Mirror Destruction Rocket Space  
Computer Congress Russia Risk Challenge

---

Accession #: 969 AD #: 0  
TITLE: Computing Development System (Codes): R & D Status Report December  
1986  
Author(s): Smith, W.  
Date: 12/01/86 Pages:02 Report #: CR-20-1357  
Corp. Author: General Research Corporation, 307 Wynn Dr., Huntsville, Al  
35805  
Index Terms: Prototype Design Methodology Test Development

---

Accession #: 970 AD #: 0  
TITLE: R & D Status Report for September 1987  
  
Author(s): Halfich, N.M.  
Date: 10/14/87 Pages:03 Report #: CDRL A012  
Corp. Author: SofTech, Inc., 460 Totten Pond Rd., Waltham, MA. 02254-9197  
  
Index Terms: Design Evaluation Support Analysis Concept BM/C3 Data  
Simulation Algorithm SDI

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Accession #: 971 AD #: 0  
TITLE: SDI Advanced Planning Briefing for Industry  
  
Author(s): Oliver, R.G., MAJ  
Date: 11/03/87 Pages:10 Report #: 0  
Corp. Author: DoD, SDIO, Washington, D.C. 20301-7100  
  
Index Terms: KEW (Kinetic Energy Weapon) Battle ERINT (Extended Range  
Intercept Technology)

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Accession #: 973 AD #: 0  
TITLE: Research and Development Status Report for May 12, 1987 - June 11, 1987  
Author(s): 0  
Date: 05/12/87 Pages:05 Report #: CDRL A003  
Corp. Author: Alphatech, Inc., 111 Middlesex Turnpike, Burlington, MA 01803  
Index Terms: Multisensor Tracking Development Algorithm Target Methodology

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Accession #: 974 AD #: 0  
TITLE: Multiple Information Set Tracking Correlator (MISTC) Development  
Author(s): Tasknakis, H.; Korn, J.; Allen, T.G.; Willsky, A.S.  
Date: 06/01/87 Pages:10 Report #: TP-251  
Corp. Author: Alphatech, Inc., 111 Middlesex Turnpike, Burlington, MA 01803  
Index Terms: BMD (Ballistic Missile Defense) Space Velocity Surveillance  
Multisensor Target Fusion

---

Accession #: 975 AD #: 0  
TITLE: Performance of RS-BCH Concatenated Codes and BCH Single-Stage Codes on an Interference Satellite Channel  
Author(s): Hershey, P.C.; Ephremides, A.; Khatri, R.K.  
Date: 0 Pages:42 Report #: 0  
Corp. Author: Faichild Space CO., Germantown, MD 20874  
Index Terms: Intersatellite Random Telecommunication Noise Orbit Error  
Density Locoder Protocol

---

Accession #: 976 AD #: 0  
TITLE: BDM Concept Definition Monthly Progress Report for August 1987  
Author(s): Lorenzini, D.A.  
Date: 09/22/87 Pages:06 Report #: 0  
Corp. Author: SRS Technologies, 1500 Wilson Blvd., Suite 800, Arlington, VA 22209-8707  
Index Terms: SDIO BM/C3 Army Analysis Integration World Cycle Beam  
Simulation

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Accession #: 977 AD #: 0  
TITLE: System Architecture and Key Trades (SAKT) Study for July and August 1987  
Author(s): 0  
Date: 09/24/87 Pages:13 Report #: 0  
Corp. Author: SAIC, 1710 Goodridge Dr., P.O. Box 1303, McLean, VA 22102  
Index Terms: IAA (Integrated Architecture Analysis) Methodology SDIO  
Traceability Simulation Battle Threat Mission

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Accession #: 978 AD #: 0  
TITLE: BM/C3 Representations For Strategic Defense Initiative Campaign  
Level Simulations  
Author(s): Antsen, P.B.  
Date: 10/08/87 Pages:31 Report #: 0  
Corp. Author: SAIC, 1710 Goodridge Dr., P.O. Box 1303, McLean, VA 22102  
Index Terms: BM/C2 (Battle Management/Command and Control) SDI Tactic  
Transition

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Accession #: 979 AD #: 0  
TITLE: System Architecture And Key Tradeoff Studies: Integrated  
Architecture Analysis  
Author(s): Cosby, M.  
Date: 10/05/87 Pages:60 Report #: 0  
Corp. Author: SAIC, 1710, Goodridge Dr., P.O. Box 1303, McLean, VA 22102  
Index Terms: Methodology Threat Baseline Parameterization Mission SDI

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Accession #: 980 AD #: 0  
TITLE: KV Airframe Configuration  
Author(s): 0  
Date: 04/29/87 Pages:05 Report #: 0  
Corp. Author: McDonnell Douglas Astronautics Co.  
Index Terms: Assembly Heat Antenna

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Accession #: 981 AD #: 0  
TITLE: SDI Program: Financial Data for Fiscal Years 1986 and 1987 (Fact  
Sheet for Congressional Requesters)  
Author(s): Finley, H.R.  
Date: 02/12/87 Pages:22 Report #: B-223094  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20548  
Index Terms: SDIO Research Budget Data DEW (Directed Energy Weapon)  
Reduction DoD Congress

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Accession #: 982 AD #: 0  
TITLE: The ITEA Journal of Test and Evaluation of C3I  
Author(s): Goodwin, H.W.  
Date: 01/01/87 Pages:45 Report #: 0  
Corp. Author: ITEA Headquarters, 4400 Fair Oaks Court, Fairfax, Virginia  
22033  
Index Terms: Command Control Communication Intelligence (C3I) Effectiveness  
Test Evaluation Threat Force Deployment NATO

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Accession #: 983 AD #: 0  
TITLE: Distributed Networking Controllers Final Report  
Author(s): 0  
Date: 10/29/87 Pages:33 Report #: 0  
Corp. Author: Optimization Technology, Inc., 175 E. Magnolia Avenue,  
Auburn, AL 36830  
Index Terms: Allocation Tracking Extrapolation Command Control  
Communication Threat Weakness Strategy

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Accession #: 984 AD #: 0  
TITLE: Man/Machine Interface (MMI) Program Plan  
Author(s): 0  
Date: 04/21/87 Pages:80 Report #: 0  
Corp. Author: United States Army  
Index Terms: SDI C2 Research Test Bed Technology Simulation Intelligence  
Application Psychology

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Accession #: 985 AD #: 0  
TITLE: Manufacturing Cost Reduction Analysis Guide for SDI Systems  
  
Author(s): 0  
Date: 07/21/87 Pages:60 Report #: 0  
Corp. Author: Booz, Allen & Hamilton Inc., 4330 East West Hwy, Bethesda, MD 20814  
Index Terms: Cost Reducton Methodology Concept SDI Technology Optimum CDRL (Contract Data Requirement List) Mercury Defense Time SBIR

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Accession #: 986 AD #: 0  
TITLE: SDI Battle Management System Accreditation Issues: June 19, 1987  
  
Author(s): Barrabee, K.H.  
Date: 06/19/87 Pages:44 Report #: TM-8361/001/00  
Corp. Author: Unisys Defense Systems, 5151 Camino Ruiz, Carmillo, California 93011-6004  
Index Terms: Battle Test Security Cycle Control Policy Data Methodology

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Accession #: 987 AD #: 0  
TITLE: Multiple Information Set Tracking Correlator (MISTC) Concept Development  
Author(s): Tsaknakis, H.; Korn, J.; Allen, T.; Washburn, R.; Willsky, A  
Date: 06/09/87 Pages:15 Report #: SP-768  
Corp. Author: Alphatech, Inc., 2 Burlington Exec. Cntr., 111 Middlesex Tnpk., Burlington, MA  
Index Terms: Support Battle Engagement SDI Global Surveillance Sensor Weapon Resource Strategic Fusion Node

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Accession #: 988 AD #: 0  
TITLE: SATKA Program Review  
  
Author(s): 0  
Date: 07/08/87 Pages:45 Report #: 0  
Corp. Author: SDIO, Department of Defense, Washington, D.C. 20301-7100  
Index Terms: Mission Technology Integrate Launch Sensor Trajectory

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Accession #: 989 AD #: 0  
TITLE: Allocated Functional Requirements  
  
Author(s): Hall, R.W.  
Date: 09/15/87 Pages:143 Report #: 0  
Corp. Author: SAIC, 1710 Goodridge Drive, P.O. Box 1303, McLean, Virginia 22102  
Index Terms: Sensor Data Kill Mission Target Engagement Battle

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Accession #: 990 AD #: 0  
TITLE: Battle Management/Command and Control, and Communications (BM/C3): Demonstration/Validation Program Environmental Assessment  
Author(s): Brown, G. Capt.  
Date: 08/01/87 Pages:41 Report #: 0  
Corp. Author: SDIO Systems Engineering, Washington, D.C. 2030-7100  
Index Terms: SBI Surveillance Reentry Technology Vehicle Research Test Communication Survivability Hazard

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Accession #: 991 AD #: 0  
TITLE: SDI: System Description Language Specification

Author(s): 0  
Date: 07/09/87 Pages:95 Report #: SDL SPEC 2.0  
Corp. Author: SDIO, BM/C3, Washington, D.C. 20301-7100

Index Terms: Behavior Simulation Life Configuration Algorithm Technology  
Node

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Accession #: 992 AD #: 0  
TITLE: A Design Concept for Reliable Radio Networks with Frequency Hopping  
Signaling

Author(s): Ephremidea, A.; Wieselthier, J.E.; Baker, D.J.  
Date: 12/05/87 Pages:55 Report #: 0  
Corp. Author: Naval Research Laboratory

Index Terms: Radio HF (High Frequency) Survivability Cluster Navy  
Communication Kilometer Atmospheric Modular Transmission

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Accession #: 993 AD #: 0  
TITLE: On The Stability Of Interfacing Queues In A Multiple Access System

Author(s): Rao, R.; Ephremides, A.  
Date: 0 Pages:42 Report #: 0  
Corp. Author: Office of Naval Research

Index Terms: Terminal Symmetric Concept Collision Transmission Quadrant

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Accession #: 994 AD #: 0  
TITLE: Delay Analysis Of Interacting Queues With An Approximate Model

Author(s): Zhu Zhu, Rong; Ephredides, A.  
Date: 0 Pages:33 Report #: 0  
Corp. Author: Office Of Naval Research

Index Terms: Computation Simulation Analysis Transmission Symmetric

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Accession #: 995 AD #: 0  
TITLE: Simulation Interfaces: Draft

Author(s): Danny, C.  
Date: 05/22/87 Pages:29 Report #: 0  
Corp. Author: University of California

Index Terms: Evaluation SDI Simulation Technology Sensor Weapon  
Communication Design Deployment Battle Algorithm Distribution

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Accession #: 996 AD #: 0  
TITLE: Information Theoretic Analysis For A General Queueing System AT  
Equilibrium With Application To Queues In Tandem

Author(s): Cantor, J.; Ephremides, A.; Horton, D.  
Date: 0 Pages:35 Report #: 0  
Corp. Author: Naval Research Laboratory

Index Terms: Simulation Theory Communication Death Equation Solution

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Accession #: 997 AD #: 0  
TITLE: Software Development Structure: Technical Report, Research And  
Development Status Report  
Author(s): Baker, L.; Marker, L.R.  
Date: 08/15/87 Pages:06 Report #: CDRL A016/B010  
Corp. Author: TRW System Development Division, 213 Wynn Drive, Huntsville,  
AL 35805  
Index Terms: Design Algorithm Conversion Vax Flow Construction Architecture  
Logic Graphic Simulation

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Accession #: 998 AD #: 0  
TITLE: Initial Operations Framework Version 1.1  
  
Author(s): 0  
Date: 11/06/87 Pages:108 Report #: CDRL P003  
Corp. Author: Sparta, Inc., 7926 Jones Branch Drive, McLean, VA 22102  
  
Index Terms: SDI Battle Communication Radiometric Launch Target Traffic  
Military Flight Detection

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Accession #: 999 AD #: 0  
TITLE: FY 1986 and 1987 SDIO-Managed MIPRs  
  
Author(s): COL Seeling, L.C.  
Date: 08/24/87 Pages:07 Report #: 0  
Corp. Author: Department of Defense, SDIO, Washington, D.C. 20301-7100  
  
Index Terms: DEW MIPR Zenith Star

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Accession #: 1001 AD #: 0  
TITLE: Evolution Of SDIO's Integrated Architecture Analysis Environment  
(IAAE)  
Author(s): Baker, L.  
Date: 0 Pages:20 Report #: TRW87-300  
Corp. Author: TRW, Huntsville Operations, 213 Wynn Drive, Huntsville, AL  
35805  
Index Terms: Evolution Interface Cycle SDIO Missile Defense Challenge  
Methodology Innovation Traceability

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Accession #: 1002 AD #: 0  
TITLE: Software Development Structure: Technical Report - Eighth Quarterly  
Progress Report  
Author(s): Jones, G. M.  
Date: 08/15/88 Pages:009 Report #: CDRL A002/B002  
Corp. Author: TRW, 213 Wynn Drive, Huntsville, AL 35805  
  
Index Terms: Technology Integration Prototype SEL (Software Engineering  
Library) Methodology Evaluation Conversion Software Algorithm

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Accession #: 1003 AD #: 0  
TITLE: Strategic Defense Initiative BM/C3 Architecture Study - Phase II  
Volume III, Part II  
Author(s): 0  
Date: 02/26/87 Pages:380 Report #: CSD-TR1202A  
Corp. Author: Ford Aerospace and Comm. Corp., 10440 St. Hwy 83, Colorado  
Springs, CO 80908  
Index Terms: SDI Battle Management Command Control Communication  
Architecture Mission Matrix Defense Technology Population

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Accession #: 1004 AD #: 0  
TITLE: Capabilities and Experience: Briefing to Capt. David Hart, SDIO/BM & C3  
Author(s): 0  
Date: 08/25/87 Pages:70 Report #: 0  
Corp. Author: Ball Systems Eng. Div., 1100 Wilson Blvd., Suite 1710, Arlington, VA 22209  
Index Terms: Space Defense Intelligence Mission Technology Communication Software Development Simulation Sensor Surveillance

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Accession #: 1005 AD #: 0  
TITLE: A Study Of The Requirements Of OSSA Free-Flyer Payloads for Support By The Orbital Maneuvering Vehicle (OMV) Volume I  
Author(s): 0  
Date: 04/01/87 Pages:70 Report #: NASW-4152  
Corp. Author: The BDM Corp., 10260 Old Columbia Rd., Columbia, MD 21046-1218  
Index Terms: Vulnerable Payload NASA Transportation Space Flight Orbit Vehicle Mission Data

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Accession #: 1006 AD #: 0  
TITLE: A Study Of The Requirements Of OSSA Free-Flyer Payloads For Support By The Orbital Maneuvering Vehicle (OMV) Volume II  
Author(s): 0  
Date: 06/01/87 Pages:70 Report #: BDM/COL-87-0149-TR  
Corp. Author: The BDM Corp., 10260 Old Columbia Rd., Columbia, MD 20146-1218  
Index Terms: Flight Mission Retrieval Deployment Payload NASA Evolution Space Transportation Earth Solar Terrestrial Polar Telescope

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Accession #: 1007 AD #: 0  
TITLE: Data Accession List For Period Of 31 October 1987  
Author(s): Vocelka, D.J.  
Date: 10/31/87 Pages:13 Report #: A002  
Corp. Author: Martin Marietta Corporation, P.O. Box 179, Denver, CO 80201  
Index Terms: Space Radar Support Concept Strategic Defense Integration Launch Evaluation Sensor Mission Methodology

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Accession #: 1008 AD #: 0  
TITLE: Monthly Status Report for Period Ending 23 October 1987  
Author(s): Kinney, R.M.S.  
Date: 11/13/87 Pages:25 Report #: ULW-7-SDI-515  
Corp. Author: Sparta, Inc., Wash. Operations, 7926 Jones Branch Dr., McLean, VA 22102-0210  
Index Terms: Energy SDIO Threat Response Distribution GBL (Ground-Based Laser) Mission Strategy

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Accession #: 1010 AD #: 0  
TITLE: Strategic Defense Generic Battle Framework  
Author(s): Small, A.W.  
Date: 10/15/87 Pages:22 Report #: CD-17  
Corp. Author: SRS Technologies, Wash. Operations, 1500 Wilson Blvd., Arlington, VA 22209  
Index Terms: Combat Sensor Weapon Command Management Language

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Accession #: 1011 AD #: 0  
TITLE: SDI Research Programme: United Kingdom Company Capabilities

Author(s): Matthews, R.V., British Defence Staff, Wash., D.C. 20008  
Date: 04/01/87 Pages:170 Report #: 0  
Corp. Author: Strategic Defense Initiative, DoD, Washington, D.C.

Index Terms: President Reagan United Kingdom Security Deployment Defense  
Margaret Thatcher Ballistic Missile Navy Army Air Force

Accession #: 1013 AD #: 0  
TITLE: SDI Security Policy for 2 October 1987

Author(s): 0  
Date: 10/02/87 Pages:30 Report #: 0  
Corp. Author: Sparta, Inc., 7926 Jones Branch Dr., Suite 1710, McLean, VA  
22102

Index Terms: SDI USA Security Cycle Exploitation Policy Threat Risk  
Evolution Deployment

Accession #: 1014 AD #: 0  
TITLE: Famis Listing FY 1987

Author(s): Seeling, L.C. COL  
Date: 08/27/87 Pages:0 Report #: 0  
Corp. Author: DoD, Strategic Defense, Washington, D.C. 20301-7100

Index Terms: 0

Accession #: 1015 AD #: 0  
TITLE: Monthly Status Report for Period of 25 September 1987

Author(s): Kinney, R.M.S.  
Date: 10/09/87 Pages:10 Report #: CDRL A006  
Corp. Author: Sparta, Inc., 7926 Jones Branch Drive, McLean, Virginia  
22102-3303

Index Terms: Management Survivability Simulation Evaluation Mission GBL  
Target Strategy Computer Allocation Launch Security

Accession #: 1016 AD #: 0  
TITLE: Algorithms Developed At USASDC

Author(s): 0  
Date: 0 Pages:27 Report #: 0  
Corp. Author: United States Army, System Development Corporation

Index Terms: Node Algorithm Threat Assessment Target Detection Blast Impact  
Survival Error Battle Attack Sensor

Accession #: 1017 AD #: 0  
TITLE: SDI: Another View On Professional Responsibility

Author(s): Parnas, D.  
Date: 0 Pages:12 Report #: 0  
Corp. Author: 0

Index Terms: President Reagan Opponet Polarize Guidance SDI Deterrence Ally  
Research Deploy Technology Network Eastport Computer

Accession #: 1018  
TITLE: SRA/SRR Issues

AD #: 0

Author(s): Isreal, D.  
Date: 11/08/87 Pages:06 Report #: 0  
Corp. Author: 0

Index Terms: SRA TASC GRC SRR TBE Air Force Army Methodology

Accession #: 1019  
TITLE: BCD Update Review

AD #: 0

Author(s): 0  
Date: 10/08/87 Pages:27 Report #: 0  
Corp. Author: TRW,

Index Terms: Threat BM/C3 Orbit Weapon Evolution Trade Mission Launch  
Security Sensor Protection Attack Strategic

Accession #: 1020

AD #: 0

TITLE: Report To Congress On The Capabilities Of The SDI National Test Bed

Author(s): 0  
Date: 01/01/88 Pages:13 Report #: 0  
Corp. Author: Strategic Defense Initiative Organization, Washington, D.C.  
20301-8100

Index Terms: Research SDI Support Military NTB Survivability Deployment  
Integration Attack Technology Command Mission Battle

Accession #: 1021

AD #: 0

TITLE: Report To Congress On The Strategic Defense System Architecture

Author(s): 0  
Date: 01/01/88 Pages:033 Report #: 0  
Corp. Author: Strategic Defense Initiative Organization, Washington, D.C.  
20301-7100

Index Terms: Validation SDS (Strategic Defense System) Threat Technology  
(BM/C3) Battle Management/Command Control Communication

Accession #: 1022

AD #: ADA178467

TITLE: High Current Electron Gun for Space Flight

Author(s): Dyer, G.  
Date: 12/01/86 Pages:26 Report #: RADC-TR-86-184  
Corp. Author: Kimball Physics, Inc., Kimball Hill Rd., Wilton, NH 03086

Index Terms: Cathode Density Triode Electron Modulation Space Tetrode  
Flight Energy

Accession #: 1023

AD #: ADA178517

TITLE: Carbon Fiber Composite Coupons - Static and Fatigue Behaviour After  
Impact Damage

Author(s): Clark, G.; Van Blaricum, T. J.  
Date: 11/01/86 Pages:34 Report #: ARL/STRUC-TM-454  
Corp. Author: Aeronautical Research Labs., P.O. Box 4331, Melbourne,  
Australia

Index Terms: Fatigue Static Ultrasonic Strain Configuration Development

Accession #: 1024 AD #: ADA178523  
TITLE: Little Boy to Star Wars the Evolution of American Deterrence

Author(s): Havey, M. E., LT COL  
Date: 05/01/86 Pages:35 Report #: AU-AWC-86-093  
Corp. Author: Air War College, Maxwell AFB, AL

Index Terms: Nuclear Policy Danger War Counterforce Military ICBM  
(Inter-Continental Ballistic Missile) Retaliate

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Accession #: 1025 AD #: ADA178525  
TITLE: Strategic Deception - Planning and a Correlation with a Historical Case

Author(s): Gressang, R. V., LT COL, USAF  
Date: 05/01/86 Pages:39 Report #: AU-AWC-86-083  
Corp. Author: Air War College, Maxwell AFB, AL

Index Terms: Fraud Research Development Deception Invasion Military Radio  
Simulation Camouflage Tactic Firearm

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Accession #: 1026 AD #: ADA178625  
TITLE: Coordinated Research Program in Pulse Power Physics

Author(s): 0  
Date: 02/16/87 Pages:185 Report #: 0  
Corp. Author: Texas Tech. Univ., Dept. of Electrical Enigeering, Lubbock,  
TX 79409-4439

Index Terms: Pulse Diffuse Discharge Policy Laser Distortion Switch  
Photography X-Ray

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Accession #: 1027 AD #: ADA178649  
TITLE: Threat and Opportunity - The Soviet View of the Strategic Defense Initiative

Author(s): Uchrinsko, K. W.  
Date: 12/01/86 Pages:140 Report #: 0  
Corp. Author: Naval Postgraduate School, Monterey, CA 93943-5000

Index Terms: SDI (Strategic Defense Initiative) Soviet Union Threat NATO  
Military United States Ally Security

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Accession #: 1028 AD #: ADA178833  
TITLE: Investigation of the Transverse-Discharge Copper-Vapor Laser

Author(s): Kim, J.J.  
Date: 05/31/86 Pages:19 Report #: 0  
Corp. Author: New Mexico Univ., Albuquerque, NM

Index Terms: Transverse Laser Pulse Electric Ratio Density Vapor Mirror  
Storage Window

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Accession #: 1029 AD #: ADA178869  
TITLE: Investigation of Rocket Powered, Open Cycle, Magnetohydrodynamic Generators for High, Pulsed Power Needs in Space

Author(s): Power, J. W.  
Date: 11/01/86 Pages:68 Report #: AFIT/GSO/ENP/86D-1  
Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433

Index Terms: Generator Spacecraft Magnetohydrnamic Rocket

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Accession #: 1030 AD #: ADA178870  
TITLE: Moving-Bank Multiple Model Adaptive Estimation Applied to Flexible  
Spacestructure Control  
Author(s): Karnick, D. A.  
Date: 12/01/86 Pages:213 Report #: AFIT/GE/ENG/86D-41  
Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433  
Index Terms: Space Perturbation Control Filter Algorithm Sensor Truss  
Analysis

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Accession #: 1031 AD #: ADA178872  
TITLE: Development of Microcomputer-Based Workstation for Analysis of  
Digital Satellite Links  
Author(s): Jackson, W. C.  
Date: 12/01/86 Pages:175 Report #: AFIT/GE/ENG/86D-38  
Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433-6583  
Index Terms: Communication Satellite Microcomputer Technology Transmitter  
Interaction Formulation Design Antenna

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Accession #: 1032 AD #: ADA178873  
TITLE: Prototype Knowledge-Based System for Satellite Mission Planning  
Author(s): Perales, D. E.  
Date: 12/01/86 Pages:87 Report #: AFIT/GE/ENG/86D-17  
Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433  
Index Terms: Intelligence Satellite Mission Orbit Tracking Strategy Design

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Accession #: 1033 AD #: ADA178879  
TITLE: Performance Analyses for Peak-Detecting Laser Radars  
Author(s): Shapiro, J. H.; Reinhold, R. W.; Park, D.  
Date: 01/01/86 Pages:21 Report #: 0  
Corp. Author: Research Lab. of Elec., Mass. Inst. of Tech., 77 Mass. Ave.,  
Cambridge, MA 02139  
Index Terms: 0

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Accession #: 1034 AD #: ADA178978  
TITLE: Multiple Model Adaptive Tracking Algorithm for a High Energy Laser  
Weapon System  
Author(s): Tobin, D. M.  
Date: 12/01/86 Pages:302 Report #: AFIT/GE/ENG/86D-37  
Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433  
Index Terms: Filter Target Laser Acquisition Sensor Algorithm Velocity

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Accession #: 1035 AD #: ADA179079  
TITLE: Atomic Line Spectral Filters for Neodymium Laser Receivers  
Author(s): Liu, C. S.; Chantry, P. J.; Chen, C. L.  
Date: 11/26/86 Pages:83 Report #: 0  
Corp. Author: Westinghouse Research & Development Cntr., 1310 Beulah Rd.  
Pittsburgh, PA 15235  
Index Terms: Collision Cell Acquisition Buffer Reaction Radiation  
Wavelength Density Calculation Atom

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Accession #: 1036 AD #: ADA179115  
TITLE: Design of an Orbital Inspection Satellite  
  
Author(s): Getzelman, H.D.  
Date: 01/01/87 Pages:114 Report #: AFIT/GSO/AA/86D-4  
Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, Ohio  
45433-6583  
Index Terms: Satellite Space Camera Rocket Navigation Orbit Design

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Accession #: 1037 AD #: ADA179204  
TITLE: Estimation of ICBM Performance Parameters  
  
Author(s): Crumpton, K. S.  
Date: 12/01/86 Pages:35 Report #: AFIT/GA/AA/86D-3  
Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433  
  
Index Terms: Sensor Geometry Topocentric Space Data Launch Earth Velocity  
Trajectory ICBM Integration

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Accession #: 1038 AD #: ADA179205  
TITLE: Optimal Shuttle Altitude Changes Using Tethers  
  
Author(s): Fisher, R. R.  
Date: 12/01/86 Pages:64 Report #: AFIT/GA/AA/86D-5  
Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433  
  
Index Terms: Orbit Tank Tension Propulsion Energy Space Earth

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Accession #: 1039 AD #: ADA179208  
TITLE: Transient Reactive Exhaust Flow from a Ring-Symmetric HF/DF Space  
Laser  
Author(s): Falcovitz, J.; Fuhs, A. E.  
Date: 03/01/87 Pages:51 Report #: NPS72-87-002CR  
Corp. Author: J. Falcovitz, Research COTR, Naval Postgraduate School,  
Monterey, CA 93943-5100  
Index Terms: Laser Exhaust Spacecraft Contamination Plume Hydrogen  
Transient Molecule Recoil

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Accession #: 1040 AD #: ADA179226  
TITLE: Experimental and Theoretical Studies of Laser Cooling and Emittance  
Control of Neutral Beams  
Author(s): Lam, J. F.; McFarlane, R. A.; Palmer, A. J.; Steel, D. G.  
Date: 01/31/87 Pages:130 Report #: HAC-REF-E9915  
Corp. Author: Hughes Research Labs, Malibu, CA 90265  
  
Index Terms: Theory Laser Hydrogen Optic Sodium Photon Atomic Velocity Beam

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Accession #: 1041 AD #: ADA179268  
TITLE: Study of the Influence of Metallurgical Factors on Fatigue and  
Fracture of Aerospace Structural Materials  
Author(s): Lankford, J.; Davidson, D. L.; Chan, K. S.; Leverant, G. R.  
Date: 01/30/87 Pages:37 Report #: SWRI-06-8972  
Corp. Author: Southwest Research Inst., 6220 Culebra Road, San Antonio, TX  
78284  
Index Terms: Research Scope Fatigue Microstructure Prediction Force

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Accession #: 1042 AD #: ADA179269

TITLE: Superconducting Augmented Rail Gun (SARG)

Author(s): Homan, C. G.; Scholz, W.

Date: 02/01/87 Pages:16 Report #: ARCCB-TR-87003

Corp. Author: Army Armament Research Development and Eng. Center,  
Watervliet, NY 12189-4050

Index Terms: Rail Gun Analysis Augmentation Theory

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Accession #: 1043 AD #: ADA179272

TITLE: System Design Requirements Tool for Satellite Communications through  
Nuclear-Induced Scintillation

Author(s): Orr, R. S.

Date: 04/10/87 Pages:162 Report #: STI/E-TR-860135

Corp. Author: Stanford Telecommunications, 1761 Business Center Drive,  
Reston, VA 22090

Index Terms: Fact Link Capability Encode Binary Convolution Scintillation  
Communication Noise Transmission Propagation

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Accession #: 1044 AD #: ADA179273

TITLE: Capacitive Energy Storage at Cryogenic Temperatures

Author(s): Clark, C. F.

Date: 01/23/86 Pages:11 Report #: 0

Corp. Author: Ceramphysics, Inc., 921 Eastwind Drive, Suite 110,  
Westerville, OH 43081

Index Terms: Microstructure Thermal Voltage Storage Ceramic Electrode  
Dielectric Calculation

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Accession #: 1045 AD #: ADA179287

TITLE: High-Current Electron Gun for Space Flight

Author(s): Dyer, G.

Date: 08/31/86 Pages:37 Report #: AFGL-TR-86-0217

Corp. Author: Kimball Physics, Inc., Kimball Hill Road, Wilton, NH  
03086-9742

Index Terms: Cathode Density Tetrode Space Modulation Electron Energy Beam  
Rocket Shuttle Triode Charge

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Accession #: 1046 AD #: ADA179385

TITLE: Determining the Probability of Close Approach Between Two Satellites

Author(s): Richey, R. L., Capt, USAF

Date: 12/01/86 Pages:135 Report #: AFIT/GA/AA/85D-8

Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433

Index Terms: Approach Collision Satellite Intercept Elliptical Algorithm  
Orbit Simulation Sphere Geometry

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Accession #: 1047 AD #: ADA179413

TITLE: Optimal Continuous Thrust Orbital Evasive Maneuvers from  
Geosynchronous Orbit

Author(s): Freissinger, R. D., Capt., USAF

Date: 12/01/86 Pages:78 Report #: AFIT/GA/AA/86D-12

Corp. Author: Air Force Inst. of Tech., Wright-Patterson AFB, OH 45433

Index Terms: Geosynchronous Satellite Orbit Thrust Optimal Algorithm  
Circular Tactic

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Accession #: 1048 AD #: ADA179424  
TITLE: Star Sensor Fine Attitude Pointing Model for a Spinning  
Geosynchronous Satellite  
Author(s): Taylor, J. V., Capt., USAF  
Date: 12/01/86 Pages:152 Report #: AFIT/GA/AA/86D-14  
Corp. Author: Air Inst. of Tech., Wright-Patterson AFB, OH 45433

Index Terms: Space Attitude Star Sensor Square Estimation Navigation  
Geosynchronous Kinematic Angle Algorithm Simulation Satellite

Accession #: 1049 AD #: ADA179459  
TITLE: Integrated Optimization-Based Approach to the Design and Control of  
Large Space Structures  
Author(s): Polak, E.; Pister, K. S.; Taylor, R. L.  
Date: 09/30/86 Pages:10 Report #: 0  
Corp. Author: California Univ., Berkeley, CA 94720

Index Terms: Integration Behavior Algorithm Control Theory Solution

Accession #: 1050 AD #: ADA179561  
TITLE: Numerical Study of Hybrid Plume  
  
Author(s): Chang, F. R.; Yang, T. F.  
Date: 08/01/86 Pages:29 Report #: AFOSR-TR-87-0524  
Corp. Author: Mass. Inst. of Tech., Cambridge, Ma 02139

Index Terms: Fluid Hybrid Plume Plasma Rocket Reaction Ion Contour Antenna

Accession #: 1051 AD #: ADA179742  
TITLE: Laser Ballistic Sensor Development  
  
Author(s): Pond, C. R.; Patrick, D.; Bornstien, J. A.  
Date: 01/01/87 Pages:108 Report #: BRL-CR-563  
Corp. Author: Boeing Aerospace Co., MS 8C-64, P.O. Box 3999, Seattle, WA  
98124

Index Terms: Development Laser Sensor Ballistic Angle Measurement Motion

Accession #: 1052 AD #: ADA179764  
TITLE: Quaternary Narrow-Band Semiconductors (HgTe) x (InSb)<sup>1-X</sup> for  
Far-Infrared Detectors  
Author(s): Berger, L. I.  
Date: 08/31/86 Pages:94 Report #: 0  
Corp. Author: San Diego State Univ. Foundation, San Diego, CA

Index Terms: Crystal Detector Optical Thermal Electric Ingot Infrared  
Energy Alloy Exposure

Accession #: 1053 AD #: ADA179864  
TITLE: Electromagnetic Description of the Two Stream Instability in a  
Relativistic Electron Beam  
Author(s): Uhm, H. S.  
Date: 05/01/84 Pages:12 Report #: NSWC/MP-84-236  
Corp. Author: Naval Surface Weapons Center, Silver Spring, MD

Index Terms: Electromagnetic Beam Algebra Stream Physic Radial Collision  
Equation Axial Density Velocity Dimension



Accession #: 1054 AD #: ADA179909  
TITLE: Wide Area Guidance and Control Program - Investigation of Scanning  
IR Seeker Performance in Background Clutter  
Author(s): Howser, L. M.  
Date: 11/01/86 Pages:72 Report #: JHU/APL/TG-1360  
Corp. Author: Johns Hopkins Univ., John Hopkins Road, Laurel, MD 20707  
Index Terms: Pulse Target Detection Scan Cloud Terrain Wavelength Geophysics

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Accession #: 1055 AD #: ADA179933  
TITLE: New Technologies and the Role of Nuclear Weapons in National  
Security Strategy-Vol. VII-The US & European Security-Interests and  
Author(s): Steiner, A.  
Date: 12/31/83 Pages:73 Report #: RDA-PH83-11-0006M1-83G  
Corp. Author: R & D Associates, P.O. Box 9695, Marina Del Rey, CA 90295  
Index Terms: Technology NATO Power Politics War Alliance United States

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Accession #: 1056 AD #: ADA180148  
TITLE: Decentralized Processing in Sensor Arrays  
Author(s): Waxnniger, M.  
Date: 10/01/85 Pages:08 Report #: 0  
Corp. Author: Stanford Univ., Stanford, CA 94305  
Index Terms: Sensor Array Triangle Radar Seismology Matrix Algorithm  
Wavefront Vector Matrice

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Accession #: 1057 AD #: ADA180276  
TITLE: Thermal and Dynamical Effects on Electrodynamic Space Tethers  
Author(s): Prall, J. S.  
Date: 05/08/87 Pages:135 Report #: 0  
Corp. Author: Army Military Personnel Center, 200 Stonewall St.,  
Alexandria, VA 22332  
Index Terms: Electrodynamic Space Power Engine Insulation

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Accession #: 1058 AD #: ADA180280  
TITLE: Impulsive Loading from a Bare Explosive Charge in Space  
Author(s): Falcovitz, J.  
Date: 12/01/86 Pages:65 Report #: NFS72-86-004CR  
Corp. Author: Falcovitz, J., Research COTR, Naval Postgraduate Sch.,  
Monterey, CA 93943-5100  
Index Terms: Blast Space Impulsive Explosive Damage Kinetic Energy  
Configuration Isotropic

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Accession #: 1059 AD #: ADA180327  
TITLE: Decentralized Detection by a Large Number of Sensors  
Author(s): Tsitsiklis, J. N.  
Date: 04/01/87 Pages:24 Report #: LIDS-P-1662  
Corp. Author: Mass. Inst. of Tech., Cambridge, MA 02139  
Index Terms: Sensor Fusion Noise Map Error Ratio Evaluation Asymptotic

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Accession #: 1060 AD #: ADA180466  
TITLE: Deterrence Enhanced by SDI (Strategic Defense Initiative)

Author(s): Sowa, P. T.  
Date: 03/23/87 Pages:46 Report #: 0  
Corp. Author: Army War College, Carlisle Barricks, PA 17013

Index Terms: Deterrence Military SDI Capability Influence Ballistic Missile  
Threat Mankind Peace Weapon

Accession #: 1061 AD #: ADA180474  
TITLE: Effects of Scientific, Political and Allied Opposition to SDI on  
National Security

Author(s): McKie, F.  
Date: 03/23/87 Pages:32 Report #: 0  
Corp. Author: Army War College, Carlisle Barracks, PA 17013

Index Terms: SDI Deterrence Research Strength Ally Political Opposition  
Media Support Technology Congress Control

Accession #: 1062 AD #: ADA180476  
TITLE: Strategic Defense Initiative and the Prisoner's Dilemma

Author(s): Kirby, D. P.  
Date: 03/23/87 Pages:32 Report #: 0  
Corp. Author: Army War College, Carlisle Barracks, PA 17013

Index Terms: BMD (Ballistic Missile Defense) Nuclear Strategy Dilemma SDI  
War

Accession #: 1063 AD #: 0  
TITLE: Thin Film Optical Directional Coupler: Final Report

Author(s): Czubytyj, W.; Doehler, J.  
Date: 01/28/88 Pages:45 Report #: A002  
Corp. Author: Energy Conversion Devices, Inc., 1675 W. Maple Rd., Troy,  
Michigan

Index Terms: Technology Development Integrate Optical Coupler Calculation  
Waveguide Window Angle Laser Refraction Temperature Reflector

Accession #: 1064 AD #: 0  
TITLE: Basing Exclusionary Criteria

Author(s): Gray, G.H.; Williams, C.V.  
Date: 01/31/88 Pages:32 Report #: MCR-88-507  
Corp. Author: Martin Marietta Astronautics Group, P.O. Box 179, Denver, CO  
80201

Index Terms: Methodology Analysis Flow Geographic Command Deployment  
Survival Military Mission Weapon Sensor Support Seismic

Accession #: 1065 AD #: 0  
TITLE: Space Based Particle Beam Technology Analysis And Assessment

Author(s): Elliot, W.F.  
Date: 01/21/88 Pages:26 Report #: CR-391-1372  
Corp. Author: General Research Corporation, 635 Discovery Drive,  
Huntsville, AL 35806

Index Terms: Energy Space Technology Design Analysis Transportation Beam  
Ion Solenoid Ratio Transmission Simulation

Accession #: 1066 AD #: 0  
TITLE: Report of the Secretary of Defense Caspar W. Wienberger to the  
Congress on the FY 85 Budget, FY 85-89 Defense Programs  
Author(s): 0  
Date: 02/01/84 Pages:300 Report #: 0  
Corp. Author: United States Congress, Washington, D.C.

Index Terms: Reduction Strength Deterrence Policy Challenge Nuclear NATO  
Soviet Threat Treaty Deployment Missile Test Alliance

Accession #: 1067 AD #: 0  
TITLE: AFCEA BM/C3 Technology Study Phase 1 Report General Technology  
Assessment: Software  
Author(s): Blakemore, J.; Boehm, B.; Ginn, T.; Jackson, F., et al  
Date: 0 Pages:36 Report #: 0  
Corp. Author: Air Force Communication & Electronics Association

Index Terms: Eastport Technology Threat Mobility Control Adaptation  
Security Countermeasures Synchronization C3I Integration

Accession #: 1068 AD #: 0  
TITLE: Strategic Defense Initiative (SDI) Battle Command Control  
Communications (BM/C3) Technology Study Phase One  
Author(s): Yuill, S.R.; Wentz, A.R.; de Pedro, H., et al  
Date: 12/01/86 Pages:25 Report #: 0  
Corp. Author: Air Force Communication & Electronics Association

Index Terms: Technology SDI Node Topology Management Security Interceptor  
Space DEW Orbit Airborne Sensor Battle

Accession #: 1069 AD #: 0  
TITLE: AFCEA - SDI BM/C3 Technology Assessment Phase I Final Report: Team E  
- Communications: November 21, 1986  
Author(s): Woywood, D.J.; Park, J.H.; Bickford, W.J., et al  
Date: 11/21/86 Pages:77 Report #: 0  
Corp. Author: Air Force Communication & Electronics Association

Index Terms: Battle Command Technology Communication Mission Surveillance  
Weapon Transmission Security Peace Engagement Error

Accession #: 1070 AD #: 0  
TITLE: AFCEA SDI BM/C3 Study Team B Processors Phase One Report  
Author(s): Ulmen, P.; Gregory, J.; Kenny., W.; Hill, J.  
Date: 11/30/86 Pages:27 Report #: 0  
Corp. Author: Air Force Communication & Electronics Association

Index Terms: Control RADC (Rome Air Development Command) NASA SDI  
Integration Computer Mission Technology Security Tolerance

Accession #: 1071 AD #: 0  
TITLE: Distributed Systems Technology Assessment For SDI  
Author(s): Lawrence, M.  
Date: 09/30/86 Pages:120 Report #: E-12256U  
Corp. Author: Dynamics Research Corporation, 60 Frontage Rd., Andover, MA  
01810  
Index Terms: Threat SDI Battle Command Control Communication Survival Node  
Research Response Security Surveillance

Accession #: 1072 AD #: 0  
TITLE: Second Project Integration Meeting March 6, 1986: Hypercube Research Project  
Author(s): 0  
Date: 03/06/86 Pages:150 Report #: 0  
Corp. Author: Jet Propulsion Lab., California Inst. of Tech., Pasadena, CA  
Index Terms: Microelectronic NASA Architecture Computer Research Hypercube Communication Tolerance Simulation Army Algorithm

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Accession #: 1073 AD #: 0  
TITLE: SDI BM/C3 AFCEA Technology Study Team F - Man-Machine Interface and Decision Aids  
Author(s): Miller, L.; Kelly, M.D.; Crane, H.; Franklin, J., et al  
Date: 0 Pages:33 Report #: 0  
Corp. Author: Air Force Communication & Electronics Association  
Index Terms: Machine Industry SDI Media Simulation Validation Fusion Satellite Development Reconfiguration Threat Accident

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Accession #: 1074 AD #: 0  
TITLE: Eastport Panel on Computing for BM/C3  
Author(s): Cohen, D.  
Date: 0 Pages:66 Report #: 0  
Corp. Author: USC/Information Sciences Institute, Marina del Rey, CA 90292  
Index Terms: SDI Software Ballistic Missile Deterrence Congress Research Sensor Weapon Battle Eastport

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Accession #: 1075 AD #: 0  
TITLE: SDI- A Technical Progress Report: August 1, 1986  
Author(s): 0  
Date: 08/01/86 Pages:62 Report #: 0  
Corp. Author: Director, Strategic Defense Initiative Organization  
Index Terms: Experiment Surveillance Development Optic Battle Management Radar Communication Control Command Polymer Lethal Technology

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Accession #: 1076 AD #: 0  
TITLE: Development Of A BM/C3 Architecture Effectiveness Model (AEM): Quarterly Review - Executive Summary  
Author(s): Shaw, J. Dr.; Coughlin, P.E.; Blake, L.L.  
Date: 09/29/86 Pages:20 Report #: SP-669-02  
Corp. Author: ALPHATEC, Inc., 111 Middlesex Turnpike, Burlington, MA 01803  
Index Terms: Sensor Weapon SDI Model Analysis Reconfiguration Jamming Battle Simulation Deployment

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Accession #: 1077 AD #: 0  
TITLE: Fault-Tolerant Computer Architecture (FTCA) Modeling And Implementation  
Author(s): Deckert, J.C.; Dunham, S. R.; Kastner, M.P.; et al  
Date: 09/12/86 Pages:100 Report #: SP-667  
Corp. Author: ALPHATECH Inc., 2 Burlington Exec. Cntr., 111 Middlesex Tnpk., Burlington, MA  
Index Terms: Graphic Database Algorithm Automate Configuration

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Accession #: 1078 AD #: 0  
TITLE: Target Assignment Algorithm Quarterly Briefing # 1

Author(s): Castanon, D.A. Dr.; Kramer, L.C. Dr.  
Date: 10/23/86 Pages:58 Report #: SF-684  
Corp. Author: ALPHATECH, Inc., 2 Burlington Exec. Cntr., 111 Middlesex  
Tnpk., Burlington, MA  
Index Terms: Target Weapon Formula Algorithm Model BMD (Ballistic Missile  
Defense) Attack Allocation Strategy

Accession #: 1079 AD #: 0  
TITLE: Coordinated Many-On-Many Weapon Assignment Algorithms

Author(s): Korn, J.  
Date: 10/01/86 Pages:13 Report #: SF-681  
Corp. Author: ALPHATECH, Inc., 2 Burlington Exec. Cntr., 111 Middlesex  
Tnpk., Burlington, MA  
Index Terms: Weapon Algorithm Platform Control Fire Battle Management KEW  
Boost DEW Target

Accession #: 1080 AD #: 0  
TITLE: Battle Management C3 Algorithm/Processing Evaluation System

Author(s): 0  
Date: 10/21/86 Pages:15 Report #: CS-200  
Corp. Author: ALPHATECH, Inc., 2 Burlington Exec. Cntr., 111 Middlesex  
Tnpk., Burlington, MA  
Index Terms: Battle Algorithm Tolerance Evaluation SDIO Technology  
Architecture Motion

Accession #: 1081 AD #: 0  
TITLE: Laser Countermeasure Materials Development Program Steering  
Committee Meeting - April 21 and 22, 1986  
Author(s): 0  
Date: 04/21/86 Pages:375 Report #: 0  
Corp. Author: The BDM Corporation, 7915 Jones Branch Dr., McLean, VA 22102  
Index Terms: Carbon Thermophysical Analysis Laser Booster

Accession #: 1082 AD #: 0  
TITLE: Technology Today: "Foundation Of Tomorrow"

Author(s): Martin, W.  
Date: 03/25/87 Pages:200 Report #: 0  
Corp. Author: Hercules, Inc., Washington, D.C.  
Index Terms: Exposure Propulsion Configuration Motor Technology Rocket  
Ordnance Laser Explosion Smoke Propellant Millimeter Carbon

Accession #: 1083 AD #: 0  
TITLE: SAS Precommit Simulations and Systems Effectiveness, Final Report  
Author(s): Walters, T.A.  
Date: 09/15/87 Pages:70 Report #: 0  
Corp. Author: SPARTA, 4901 Corporate Drive, Suite 102, Huntsville, AL 35805  
Index Terms: Trajectory ICBM USSR Booster Decoy Defense DEW Countermeasure  
Interceptor Radar Missile Reentry

Accession #: 1084 AD #: 0  
TITLE: Hypercube Research Project: Quarterly Report

Author(s): Curkendall, D.W.  
Date: 05/01/86 Pages:07 Report #: D-3205  
Corp. Author: Jet Propulsion Laboratory, California Inst. of Tech.,  
Pasadena, CA 91109  
Index Terms: Node Prototype Integration Communication Cube Asynchronous

Accession #: 1085 AD #: 0  
TITLE: A Decentralized Approach to SDI BM/C3I: Autonomous Platform  
Operation

Author(s): 0  
Date: 10/23/85 Pages:16 Report #: 0  
Corp. Author: Sandia National Laboratories

Index Terms: Leakage Ratio Management Technology Threat Error Survivability  
Countermeasures SDIO Weapon Force Control Simulation Mission

Accession #: 1086 AD #: 0  
TITLE: Rpt. to The Fed. Coordinating Council on Science, Eng. and Tech.  
Supercomputer Panel on Recommended Govt. Actions to Retain U.S. Lead

Author(s): 0  
Date: 12/01/83 Pages:76 Report #: 0  
Corp. Author: SIAM, Washington, D.C.

Index Terms: Supercomputer Research Development Ballistic Missile Fusion  
Energy Weapon Geophysics Aircraft Aerospace Science Behavior

Accession #: 1087 AD #: 0  
TITLE: Third Annual NASA SCOLE Workshop: 1986

Author(s): Taylor, L. W.  
Date: 11/18/86 Pages:468 Report #: NASA NTM 89075  
Corp. Author: NASA, Langley Research Center, Hampton, VA 23665

Index Terms: Configuration Spacecraft Gravity Parameter Regulation NASA  
Augmentation Sensor Beam Formula Motion

Accession #: 1088 AD #: 0  
TITLE: Software Productivity Solutions: Corporate Profile

Author(s): 0  
Date: 12/01/86 Pages:40 Report #: 0  
Corp. Author: Software Productivity Solutions, Inc., P.O. Box 361697,  
Melbourne, FL 32936  
Index Terms: (ADL) Ada-based Design Language Analysis Support Methodology  
Technology Science SDI (RADC) Rome Air Development Center Life

Accession #: 1089 AD #: 0  
TITLE: ADL Guidelines: Final Technical Report

Author(s): Lindley, L. Dr.  
Date: 01/14/86 Pages:95 Report #: 0  
Corp. Author: Software Productivity Solutions, Inc., P.O. Box 361697,  
Melbourne, FL 32936  
Index Terms: Language Hardware Army Design Configuration SDI Navy Mission  
Technology

Accession #: 1090 AD #: 0  
TITLE: Guidelines for the Development of an Ada-Based Design Language (ADL)  
Toolset: Final Report  
Author(s): 0  
Date: 01/14/85 Pages:43 Report #: 0  
Corp. Author: Software Productivity Solutions, Inc., P.O. Box 361697,  
Melbourne, FL 32936  
Index Terms: Analysis Error Decomposition Dependency Metric Translation  
Support Navy Language Control

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Accession #: 1091 AD #: 0  
TITLE: Guidelines for the Acquisition Management of a Project Using an  
Ada-Based Design Language (ADL)  
Author(s): 0  
Date: 01/23/85 Pages:43 Report #: 0  
Corp. Author: Software Productivity Solutions, Inc., P.O. Box 361697,  
Melbourne, FL 32936  
Index Terms: Configuration Design Code Test Acquisition Ratio Modular Globe  
Allocation

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Accession #: 1092 AD #: 0  
TITLE: SDS Battle Management Security Study: FY 87 Progress Report  
Author(s): Skelton, A.  
Date: 01/29/88 Pages:35 Report #: TM-8361/002/00  
Corp. Author: Unisys Corporation, 5151 Camino Ruiz, Camarillo, CA 93010  
Index Terms: Security Battle Downgrade Management Logic Software Analysis  
Policy Generic Methodology Space Command SDS

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Accession #: 1093 AD #: 0  
TITLE: Life Cycle Cost Inputs, Assumptions and Methods: Volume I - Cost  
Appendix  
Author(s): Simas, R.S.; Kincaid, C., et al  
Date: 02/10/88 Pages:96 Report #: 0  
Corp. Author: W. J. Schafer Associates, 1901 N. Fort Myer Dr., Suite 800,  
Arlington, VA 22209  
Index Terms: Integration Data Approach Methodology Algorithm Control  
Configuration

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Accession #: 1094 AD #: 0  
TITLE: Cost-Effectiveness and Cost-Exchange Analysis (SUBTASKS 6.5.2 and  
6.5.3)  
Author(s): Simas, R.S.; Kincaid, C., et al  
Date: 02/10/88 Pages:56 Report #: 0  
Corp. Author: W. J. Schafer Associates, Inc., 1901 N. Fort Myer Dr.,  
Arlington, VA 22209  
Index Terms: Cycle Cost Kill Laser Particle Airborne Radar Threat  
Methodology Space Deployment

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Accession #: 1095 AD #: 0  
TITLE: Appendices and Supporting Data: Volume IV - Cost Appendix  
Author(s): Simas, R.S.; Kincaid, C., et al  
Date: 02/10/88 Pages:100 Report #: 0  
Corp. Author: W. J. Schafer Assoc., Inc., 1901 N. Ft. Myer Dr., Suite 800,  
Arlington, VA 22209  
Index Terms: Weight Payload NASA Launch Shuttle Production Configuration  
Support Army Acquisition

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Accession #: 1096 AD #: 0  
TITLE: Command And Control Research Symposium: 1987 Proceedings  
  
Author(s): Miller, J.T.  
Date: 09/01/87 Pages:506 Report #: SAIC-87-1119  
Corp. Author: Science Applications Internat'l Corp., 1710 Goodbridge Dr.,  
McLean, VA 22102  
Index Terms: Research Command Control Theory Intelligence Behavior Tactic  
Navy Policy Defense Trajectory

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Accession #: 1098 AD #: 0  
TITLE: Computing Development System (Codes): R & D Status Report for  
September 1987  
Author(s): 0  
Date: 01/09/87 Pages:002 Report #: CR-35-1357  
Corp. Author: General Research Corporation, 635 Discovery Drive,  
Huntsville, AL 35806  
Index Terms: Computation Development Defense Missile Technology

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Accession #: 1099 AD #: 0  
TITLE: Transmittal Of Data Package For The Coolant Tank Critical Design  
Review (CDR)  
Author(s): Pritchard, J. L.  
Date: 02/11/88 Pages:32 Report #: A3-D302-2.5.13-SS-0176  
Corp. Author: McDonnell Douglas, 5301 Bolsa Ave., Huntington Beach, CA  
92647-2048  
Index Terms: Risk Stress Failure Subscale Test Coolant Tank Aircraft  
Propellant Nitrogen Military Development Design Missile Space

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Accession #: 1100 AD #: 0  
TITLE: Sensors For Surveillance, Acquisition And Discrimination (87-688)  
Infrared Sensor Calibration Techniques And Standards: Infrared Calib  
Author(s): 0  
Date: 02/08/88 Pages:52 Report #: 0  
Corp. Author: XonTech, Inc., 7711 Center Avenue, Suite 550, Huntington  
Beach, CA 92647  
Index Terms: Star Stellar Equator Mission Calibration Photon Energy Angle  
Wavelength

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Accession #: 1101 AD #: 0  
TITLE: Computing Strategies For SDI Battle Management Command, Control And  
Communications Assignment Algorithms  
Author(s): 0  
Date: 01/27/88 Pages:55 Report #: 0  
Corp. Author: HUBB Systems, Inc., P.O. Box 424, Hubbardston, MA 01452  
Index Terms: Algorithm SDI BM/C3 Optimal Architecture Solution MAP  
(Marginal Assignment Potential) Calculation

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Accession #: 1102 AD #: ADC002496  
TITLE: Topical Report on Recurring Technical Problems In Soviet Tactical  
Aircraft - A Key To Identifying Critical Items On The COCOM Embargo  
Author(s): Eggers, F.E.; Vergara, R.D.  
Date: 03/01/74 Pages:0 Report #: ARPA-2399  
Corp. Author: Battelle Columbus Laboratories, 505 King Avenue, Columbus, OH  
43201  
Index Terms: Military Airborne Embargo Research Technology Soviet Aircraft  
Electronic Turbine Combat Methodology Solution Cycle Intellige

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Accession #: 1103 AD #: 0  
TITLE: Tracking and Discrimination Working Group Meeting For Period of Nov.  
4 through Nov. 6, 1987: Workshop # 5  
Author(s): Richardson, K.  
Date: 11/04/87 Pages:195 Report #: MCR-87-590  
Corp. Author: Martin Marietta, Denver, CO

Index Terms: Plume Cone Growth Radiation Image Synthetic Laser Impulse  
Flash

Accession #: 1104 AD #: 0  
TITLE: BSTS Crosslink Lasercom System Description

Author(s): Kaufman, J.  
Date: 01/06/88 Pages:18 Report #: 0  
Corp. Author: M.I.T. Lincoln Laboratory

Index Terms: Transmitter Receiver Telescope Module Acquisition Elevation  
Angle Technology Tracking Heterodyne Mirror Optic Array Laser

Accession #: 1105 AD #: 0  
TITLE: Critique Of McDonnell Douglas, "Laser Jamming Assessment"

Author(s): Chan, Vincent, W.S.  
Date: 01/06/88 Pages:13 Report #: 0  
Corp. Author: M.I.T. Lincoln Laboratory

Index Terms: Communication Wavelength Laser Module Code Receiver Noise  
Technology Calculation Transmitter Signal Space Crystalline

Accession #: 1106 AD #: 0  
TITLE: Review Of The RF Portions Of The McDonnell-Douglas Briefing  
Material, "Impact Of Spaced-Based Jammers On RF and Lasercom Links I  
Author(s): McElroy, D.R.  
Date: 01/06/88 Pages:008 Report #: 0  
Corp. Author: M.I.T. Lincoln Laboratory, Lexington, MA

Index Terms: Threat Antenna Sidelobe Transmit Satellite Attack Hemispheric  
Code Error

Accession #: 1107 AD #: 0  
TITLE: A V-Band (60-GHz) Crosslink For The BSTS-TD-Weapons Carrier  
Communications  
Author(s): Cummings, W.C.  
Date: 01/06/88 Pages:13 Report #: 0  
Corp. Author: M.I.T. Lincoln Laboratory, Lexington, MA

Index Terms: Beam Optic Technology Threat Satellite Weapon Noise Signal  
Oxygen Circuit

Accession #: 1108 AD #: 0  
TITLE: A Potential Discriminant For Light Decoys (Parametric Study)

Author(s): 0  
Date: 01/05/88 Pages:009 Report #: 0  
Corp. Author: IDA, Sci. & Tech. Div., 1801 N. Beauregard St., Alexandria,  
VA 22311

Index Terms: Sensor Deployment Plume Interaction Exposure Accuracy  
Countermeasure Trajectory Histogram Meter

Accession #: 1109 AD #: 0  
TITLE: Justification For Midcourse Optical Sensors

Author(s): 0  
Date: 0 Pages:16 Report #: 0  
Corp. Author: IDA, Sci. & Tech. Div., 1801 N. Beauregard St., Alexandria,  
VA 22311  
Index Terms: Shadow Earth Calculation Atmosphere Radius Transparent  
Penumbra Launch Illuminate Sun Trajectory Winter Threat Solar

Accession #: 1110 AD #: 0  
TITLE: Scheduling Periodic Jobs Using Imprecise Results

Author(s): Chung, J.; Liu, J.; Lin, K.  
Date: 11/30/87 Pages:30 Report #: UIUCDCS-R-87-1307  
Corp. Author: Dept. of Computer Sci., Univ. of Il AT Urbana-Champaign,  
Urbana, Illinois  
Index Terms: Time Deadline Environment Formula Error

Accession #: 1111 AD #: 0  
TITLE: Communications - Computers: Teamed for the '90's, Conference Record  
- Volume I, II, III  
Author(s): Aarons, J.; Cheer, A.P.; Horowitz, L.L., et al  
Date: 10/05/86 Pages:550 Report #: 86CH2323-4  
Corp. Author: IEEE Service Cntr., Pub. Sales Dept., 445 Hoes Lane,  
Piscataway, NJ 08854-4150  
Index Terms: Battle Submarine Network Time Communication Nuclear Optic  
Blast Antenna Compression Array Military Space Fiber

Accession #: 1112 AD #: 0  
TITLE: Surveillance, Acquisition, Tracking and Kill Assessment (SATKA)  
Program Review  
Author(s): Schnelzer, G. A., Col. USAF  
Date: 11/16/87 Pages:11 Report #: 0  
Corp. Author: Department of Defense, SDIO, Washington, D.C. 20301-7100  
Index Terms: Sensor Space Algorithm Technology Radar Optic Silicon Arsenide

Accession #: 1113 AD #: 0  
TITLE: EV88 Baseline Architecture Requirements (Cast Task No. 5)  
Author(s): Peterson, C. J.  
Date: 11/20/87 Pages:35 Report #: 86010  
Corp. Author: The MITRE Corporation, Wash. C3I Div., 7525 Colshire Dr.,  
McLean, VA 22102-3481  
Index Terms: Threat Tube Terminal Algorithm Sensor Cluster Battle Attack  
Trajectory Debris Missile Angle Decoy

Accession #: 1114 AD #: 0  
TITLE: Strategic Defense System BM/C3 And Implicit Coordination  
Author(s): Schutt, W. D.  
Date: 11/20/87 Pages:14 Report #: 0  
Corp. Author: TRW  
Index Terms: Battle Weapon Allocation Defense Coordination Sensor Readiness  
Efficiency Earth Task Survival Orbit Threat

Accession #: 1115 AD #: 0  
TITLE: Monthly Status Report On Contract (MDA903-85-C-0064) for Period  
Ending 23 November 1987

Author(s): 0  
Date: 11/23/87 Pages:16 Report #: 0  
Corp. Author: 0

Index Terms: DEW (Defense Energy Weapon) Threat Mission Strategy Methodolgy

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Accession #: 1116 AD #: 0  
TITLE: A Correlator/Tracker Algorithm For SDI Midcourse Battle Management

Author(s): 0  
Date: 01/15/88 Pages:15 Report #: 0  
Corp. Author: Strategic Defense Initiative Organization, Washington, D.C.

Index Terms: Vehicle Decoy Target SDI Surveillance Support Sensor Boost  
Weapon Algorithm Map Allocation Kill Configuration

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Accession #: 1117 AD #: 0  
TITLE: Nunn Outlines New Arms Control and Strategic Modernization Agenda

Author(s): Nunn, Sam, United States Senator  
Date: 01/19/88 Pages:13 Report #: 0  
Corp. Author: United States Senate, Washington, D.C.

Index Terms: Arms Soviet Missile Development Defense Weapon Civilian  
Chernobyl Bhopal Telecommunication Treaty SDI Space

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Accession #: 1118 AD #: 0  
TITLE: BM/C3 Concept Definition Project Technical Interchange Meeting

Author(s): 0  
Date: 02/23/88 Pages:003 Report #: 0  
Corp. Author: TRW

Index Terms: Concept Battle Threat Strategy Control Technology  
Communication

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Accession #: 1119 AD #: 0  
TITLE: International Software Integrity: The Need For A Common Defense  
Initiative

Author(s): Mills, M. H.  
Date: 01/01/87 Pages:003 Report #: 0  
Corp. Author: Defense Science & Electronics, Rush Franklin Publishing, Inc.

Index Terms: SDI Software NATO Military Trade Research Circuit Technology  
Design Methodology

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Accession #: 1120 AD #: 0  
TITLE: Software Development Structure: Technical Report, Research and  
Development Status Report

Author(s): Jones, M. J.  
Date: 01/15/87 Pages:006 Report #: SN46117  
Corp. Author: TRW, System Dev. Div., 213 Wynn Dr., Huntsville, AL 35805

Index Terms: Support Translator Sun Simulation Development Installation  
Technology Radar

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Accession #: 1121 AD #: 0  
TITLE: The Third Conference on Hypercube Concurrent Computers and Applications  
Author(s): 0  
Date: 01/19/88 Pages:12 Report #: 0  
Corp. Author: California Inst. of Tech., Pasadena, CA  
  
Index Terms: Velocity Seismic Parallel Node Algorithm Hypercube Equation  
Linear Image Propulsion Hydrodynamic

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Accession #: 1122 AD #: 0  
TITLE: (SADMT) SDI Architecture Dataflow Modeling Technique  
  
Author(s): Linn, J.; Ardoin, Cy D., et al  
Date: 08/24/87 Pages:60 Report #: P-2035  
Corp. Author: IDA, 1801 N. Beauregard Street, Alexandria, VA 22311  
  
Index Terms: Wave Environment Logic Threat SDI Sensor Weapon Equation  
Collision Missile Simulation Communication Detonation Nuclear

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Accession #: 1123 AD #: 0  
TITLE: "Cost/Affordability Requirements"  
  
Author(s): Ansten, P. B.  
Date: 12/04/87 Pages:150 Report #: 1-051-04-461  
Corp. Author: SIAC, 1710, Goodridge Dr., P.O. Box 1303, McLean, VA 22102  
  
Index Terms: Production Revolution Reduction SDI Support Weapon Cycle  
Acquisition Methodology Analysis

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Accession #: 1124 AD #: 0  
TITLE: SAIC Team on the Systems Architecture and Key Trades (SAKT) Study for November and December 1987 and January 1988.  
Author(s): Patterson, K. E.  
Date: 01/26/88 Pages:005 Report #: 0  
Corp. Author: SAIC, 1710 Goodridge Dr., P.O. Box 1303, McLean, VA 22102  
  
Index Terms: Affordability Integration Analysis Mission Technology  
Survivability Methodology

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Accession #: 1125 AD #: 0  
TITLE: Basing Exclusionary Criteria - Final  
  
Author(s): Block, E.; Hildreth, E.; Wohlfert, K.  
Date: 03/31/88 Pages:155 Report #: SIA-TR-CDRL-D001  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102  
  
Index Terms: Wartime Threat Analysis Midcourse BM/C3 Vulnerability  
Transition Logistic Reduction Development Crisis Launch Attack

---

Accession #: 1127 AD #: 0  
TITLE: Monthly Status Report for the Period of November 24, 1987 thru January 23, 1988.  
Author(s): Kinney, R.M.S.  
Date: 01/28/88 Pages:10 Report #: ULW-G-8-576  
Corp. Author: Sparta, Inc., 7926 Jones Branch Drive, McLean, VA 22102-3303  
  
Index Terms: Simulation Battle Control Space Analysis Cost Security  
Midcourse Defense Evaluation Task Technology

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Accession #: 1128  
TITLE: SOFTECH Capabilities

AD #: 0

Author(s): 0  
Date: 01/12/88 Pages:009 Report #: VG-1172  
Corp. Author: SOFTECH, 460 Totten Pond Rd., Waltham, MA 02254

Index Terms: Technology Development Application Test Avionic Logistic  
Design Support Microprocessor

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Accession #: 1129 AD #: 0  
TITLE: Managing Data In A Space Based Weapons System

Author(s): 0  
Date: 0 Pages:25 Report #: VG-1165  
Corp. Author: SOFTECH, 460 Totten Pond Rd., Waltham, MA 02254

Index Terms: SDI Survivability Node Configuration Solution Application

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Accession #: 1132 AD #: 0  
TITLE: EV88 Battle Management Algorithm Status (U)

Author(s): 0  
Date: 0 Pages:22 Report #: 1287-006  
Corp. Author: SPARTA, Inc., 4901 Corporate Drive, Huntsville, AL 35805

Index Terms: Algorithm Methodology BM (Battle Management) SDI Assessment  
Midcourse Kill Threat Lethal

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Accession #: 1133 AD #: 0  
TITLE: Request for Proposal (RFP) SDIO84-R-0002, Phase I Strategic Defense  
System, Systems Engineering and Integration  
Author(s): Abrahamson, J.A. Lt. Gen., USAF  
Date: 01/27/88 Pages:500 Report #: 0  
Corp. Author: DoD, SDIO, Washington, D.C. 20301-7100

Index Terms: Integration Research Test Command Control Validation Schematic  
Analysis Exoatmospheric Simulation Life Survivability

---

Accession #: 1135 AD #: 0  
TITLE: Complexity Of Scheduling Parallel Task Systems

Author(s): Du, J.; Leung, J. Y-T  
Date: 0 Pages:32 Report #: UTDCS 6-87  
Corp. Author: The University of Texas at Dallas, Richardson, Texas  
75083-0688

Index Terms: Task Algorithm Multiprocessor Theory Solution Execution  
Equation

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Accession #: 1136 AD #: 0  
TITLE: Preemptive Scheduling With Release Times and Deadlines

Author(s): Hong, K.S.; Leung, J. Y-T  
Date: 0 Pages:30 Report #: UTDCS 7-87  
Corp. Author: The University of Texas at Dallas, Richardson, Texas  
75083-0688

Index Terms: Algorithm Exploit

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Accession #: 1137 AD #: 0  
TITLE: Minimizing Scheduling Length Subject To Minimum Flow Time

Author(s): Young, G.H.; Leung, J. Y-T  
Date: 0 Pages:26 Report #: UTDCS 9-87  
Corp. Author: The University of Texas at Dallas

Index Terms: Algorithm Theory Optimal

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Accession #: 1138 AD #: 0  
TITLE: National Test Bed (NTB) - B612

Author(s): 0  
Date: 0 Pages:19 Report #: 0  
Corp. Author: SDIO, Dept. of Defense, Washington, D.C.

Index Terms: Reduction Communication Control Simulation Technology SDI  
Space Node Experiment

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Accession #: 1139 AD #: 0  
TITLE: Integrated Architecture Analysis (IAA) Methodology & System  
Description Language (SDL)

Author(s): Small, A.W.  
Date: 10/27/87 Pages:50 Report #: 0  
Corp. Author: SRS Technologies,

Index Terms: Attack Battle Space Logic Static Behavior Launch Concept  
Simulation Leakage Weapon Threat Translation

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Accession #: 1140 AD #: 0  
TITLE: Integrated Architecture Analysis Assures Success During DEM VAL

Author(s): Frase, D.  
Date: 0 Pages:50 Report #: 0  
Corp. Author: SRS Technologies

Index Terms: Eastport Study Group SDIO Battle BMU (Ballistic Missile  
Defense) Methodology Topology Threat Algorithm

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Accession #: 1142 AD #: 0  
TITLE: Center For Interdisciplinary Research in Information Systems  
(CIRIS)

Author(s): Campbell, T. L., Dir.  
Date: 01/13/88 Pages:30 Report #: 0  
Corp. Author: College of Bus. Admin., Pennsylvania State University

Index Terms: Research Survival Revolution Technology Global Strategic  
Psychology Sociology Philosophy

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Accession #: 1144 AD #: 0  
TITLE: Strategic Defense Initiative Organization, Office of Technology  
Applications - SDIO/TA

Author(s): 0  
Date: 0 Pages:14 Report #: 0  
Corp. Author: Strategic Defense Initiative Organization, Washington, D.C.

Index Terms: SDI Technology Industry Economy Diffusion Law Congress Mission  
Research Communication Science Evaluation

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Accession #: 1145 AD #: 0  
TITLE: High Endoatmospheric Defense Interceptor In-Process Review No. I

Author(s): 0  
Date: 05/01/86 Pages:95 Report #: MDC-H2428  
Corp. Author: McDonnell Douglas Astronautics Co., 5301 Bolsa Ave.,  
Huntington Beach, CA 92647  
Index Terms: Analysis Simulation Test Assurance Safety Integration Vehicle  
Avionic Laser Algorithm Warhead Airframe Window

Accession #: 1147 AD #: 0  
TITLE: Gun Launched Target Vehicles For SDI Flight Tests

Author(s): Osofsky, I.B.  
Date: 12/15/87 Pages:35 Report #: GLTV-87-03-TR  
Corp. Author: Sparta, Inc., 3440 Carson St., Suite 300, Torrance, CA 90503  
Index Terms: Mission Scope Space Research Trajectory Motor Mirror Optic  
Rocket Gun Electronic Vacuum

Accession #: 1148 AD #: 0  
TITLE: Multiple Satellite System Network

Author(s): 0  
Date: 0 Pages:26 Report #: 0  
Corp. Author: M/A-COM  
Index Terms: Development Airborne Target Satellite Tolerance Control  
Allocation Security Earth Node Space Traffic Transmission

Accession #: 1150 AD #: 0  
TITLE: Target Tracking Against Depressed Trajectories

Author(s): Atha, P. L.  
Date: 02/09/88 Pages:30 Report #: NRC-TR-88-020  
Corp. Author: NRC, 4040 So. Memorial Parkway, Huntsville, AL 35802-1326  
Index Terms: Sensor Error Attack Radar Earth Polarization Target Trajectory  
Angle Filter Mission Washington, D.C. Calculation

Accession #: 1151 AD #: 0  
TITLE: SBIR Phase I Final Report: "Electron Cyclotron Resonance Source for  
High Current Heavy Ion Beams"

Author(s): Popov, O. Dr.  
Date: 03/01/88 Pages:52 Report #: 0  
Corp. Author: MicroScience, Inc., 41 Accord Park Drive, Norwell, MA 02061

Index Terms: Oxygen Nitrogen Target Destruction Axial Microwave Electron  
Calorimetric Radiation Vacuum Plasma Configuration

Accession #: 1154 AD #: 0  
TITLE: A Report To Congress on the Strategic Defense Initiative Deployment  
Schedule

Author(s): 0  
Date: 05/12/87 Pages:29 Report #: 0  
Corp. Author: The Department of Defense, SDIO, Washington, D.C.

Index Terms: SDI Technology Development Agressor Force Ally Ballistic  
Missile United States Satellite Attack Survival Warning

Accession #: 1155 AD #: 0  
TITLE: A Report to the Congress on the Anti-Ballistic Missile Treaty

Author(s): 0  
Date: 09/21/87 Pages:24 Report #: 0  
Corp. Author: The Department of Defense, Washington, D.C.

Index Terms: SDI Exploration Deployment Validation Lethal Kill Sensor Cost  
Surveillance Soviet Treaty Communication Energy Technology

Accession #: 1156 AD #: 0  
TITLE: Improving The Performance Of AI Algorithms

Author(s): Pancake, C.  
Date: 09/30/87 Pages:120 Report #: RADC-TR-87-131  
Corp. Author: Auburn Univ., Dept. of Computer Sci. & Eng., 107 Dunstan  
Hall, AL 36849-3501

Index Terms: Intelligence Algorithm Language Software Computation Theory  
Paradigm Strategy

Accession #: 1157 AD #: 0  
TITLE: Strategic Defense Organization - Technical Program Information

Author(s): Ionson, J.A. Dr.  
Date: 0 Pages:40 Report #: 0  
Corp. Author: Innovative Science & Technology Office, SDIO/T/IS,  
Washington, D.C. 20310-7100

Index Terms: Chemical SDI Science Mission Moon Technology Vapor Space  
Telecommunication Sensor Algorithm Detector Energy Wavelength

Accession #: 1158 AD #: 0  
TITLE: ERIS IN-Process Review (IPR) #4

Author(s): Loomis, W.C.  
Date: 09/09/86 Pages:281 Report #: LMSC-F-133953  
Corp. Author: Lockheed Missiles & Space Co., 1111 Lockheed Way, Sunnyvale,  
CA 94089-3504

Index Terms: Noise Booster Launch Development Simulation Propulsion Test  
Safety Cycle Research Rocket Optic Allocation

Accession #: 1163 AD #: 0  
TITLE: High-Resolution Absorption Spectroscopy of NO2

Author(s): Koffend, J.B.; Holloway, J.S.; Kwok, M.A.; Heinder, R.F.  
Date: 08/31/87 Pages:31 Report #: TR-0086A(2930-05)-1  
Corp. Author: Aerophysics Laboratory, The Aerospace Corporation, El  
Segundo, CA 90245

Index Terms: Atmosphere Laser Dioxide Nitrogen Spectroscopy Rotation  
Pollution Xenon Molecule Thermophane Insulation Detection Wind

Accession #: 1164 AD #: 0  
TITLE: Meeting Our Foreign Policy Goals

Author(s): Secretary Shultz, G.  
Date: 03/10/88 Pages:007 Report #: F-1054  
Corp. Author: United States Dept. Of State, Bureau of Public Affairs,  
Washington, D.C.

Index Terms: Military Strength Economic Soviet Union President Reagan  
Resolution Peace Assault Terrorism INF (Intermediate-Range Nuc



Accession #: 1166 AD #: 0  
TITLE: Public Perceptions of Space Nuclear Power

Author(s): Aftergood, S.  
Date: 01/11/88 Pages:14 Report #: 0  
Corp. Author: Committee to Bridge the Gap, 1637 Butler Avenue, Los Angeles,  
CA 90025  
Index Terms: Reactor Planet Space Evacuation Nuclear Satellite Navigation  
Canada Atomic Radioactive Safety SDI Weapon Security

Accession #: 1167 AD #: 0  
TITLE: Nuclear Aspects of the Strategic Defense Initiative

Author(s): Aftergood, S.  
Date: 04/21/87 Pages:14 Report #: 0  
Corp. Author: Committee to Bridge the Gap, 1637 Butler Avenue, Los Angeles,  
CA 90025  
Index Terms: Sensor NDEWS (Nuclear Directed Energy Weapons) Laser Microwave  
Space SDI Radius Missile Shock X-Ray Deployment Launch

Accession #: 1168 AD #: 0  
TITLE: The A.F. Space Command And NSIA Space Committee: Space Command  
Industry Conference

Author(s): 0  
Date: 02/29/88 Pages:95 Report #: 0  
Corp. Author: National Security Industrial Association

Index Terms: Mission Navy Resource Launch Science Military Combat Enemy  
Communication Technology Missile Defense Survival

Accession #: 1171 AD #: 0  
TITLE: SDI Tracker/Correlator Algorithm Test Bed Implementation Document:  
Addendum For Revision One

Author(s): Erbacher, J.  
Date: 10/22/87 Pages:009 Report #: R-041-87  
Corp. Author: Ball Systems Engineering Division, 1100 Wilson Blvd.,  
Arlington, VA 22209-2105  
Index Terms: Algorithm Ratio Dimension Target Distance Velocity Decoy  
Cluster

Accession #: 1172 AD #: 0  
TITLE: Algorithm Description Document

Author(s): 0  
Date: 08/10/87 Pages:21 Report #: WARM-001-87  
Corp. Author: AT&T Technologies, Greensboro, N.C.

Index Terms: Allocation Ballistic Missile Weapon Test Target Algorithm  
Solution Defense Attack Leak Destruction Formula Kill

Accession #: 1174 AD #: 0  
TITLE: SDI: Battle Management/Command, Control And Communications (BM/C3)  
Technology Study - Phase One

Author(s): 0  
Date: 08/01/87 Pages:198 Report #: 0  
Corp. Author: AFCEA Intr'n'l., 4400 Fair Lakes Court, Fairfax, VA 22033-3899

Index Terms: Communication Control Defense Technology SDIO Eastport  
Computer Military Space Atmospheric Error Methodology Security

Accession #: 1176 AD #: 0  
TITLE: Space Electronics Market Study: 1987 Specific Market Study  
  
Author(s): Geron, J.D.  
Date: 10/06/87 Pages:135 Report #: 0  
Corp. Author: Elec. Industries Assoc., 2001 Eye St., N.W., Washington, D.C.  
20006  
Index Terms: Space Electronic Military NASA Transportation KEW (Kinetic  
Energy Weapon) Launch Weather Communication Security Analysis

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Accession #: 1177 AD #: 0  
TITLE: Algorithm Suite For Defensive Weapons Allocation  
  
Author(s): Bravy, S.  
Date: 0 Pages:10 Report #: 0  
Corp. Author: Naval Research Laboratory, Washington, D.C. 20375  
  
Index Terms: Engagement Ballistic Missile Algorithm Allocation Employment  
Weapon Attack Defense Battle Strategy Population Threat Target

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Accession #: 1178 AD #: 0  
TITLE: DoD Program Perspectives: Program And Technology Opportunities In  
Defense Electronics  
Author(s): Lent, C.D.  
Date: 10/06/87 Pages:129 Report #: 0  
Corp. Author: Elec. Industries Assoc., 2001 Eye St., N.W., Washington, D.C.  
20006  
Index Terms: Mission Defense Industry Treaty Congress Pentagon Acquisition  
Surveillance Aircraft Warhead

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Accession #: 1180 AD #: 0  
TITLE: Signal Processing For An Advanced Surveillance Mission (U)  
  
Author(s): Gajewski, R., LTC  
Date: 03/01/88 Pages:16 Report #: 0  
Corp. Author: Nichols Research Corporation, Hunstville, AL  
  
Index Terms: Sensor Data Density Threat Mission Analog Detector Integration  
Gamma Linear Buffer Waveband

---

Accession #: 1181 AD #: 0  
TITLE: Engineering Discipline for Software Procurement  
  
Author(s): Mills, H.D.  
Date: 04/22/87 Pages:10 Report #: 0  
Corp. Author: IBM, 6600 Rockledge Dr., Bethesda, MD 20817  
  
Index Terms: Development Sensor Aircraft Control Error Design Analysis  
Transportation Algorithm

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Accession #: 1182 AD #: 0  
TITLE: The Status Of Radiation - Hardened Integrated Circuit Technology For  
SDI Systems  
Author(s): Herndon, R.  
Date: 02/03/88 Pages:33 Report #: 0  
Corp. Author: Air Force Space Technology Center, Kirtland AFB, NM  
  
Index Terms: Module Power Chip Circuit Wafer Silicon Radiation Test  
Architecture Memory

---

Accession #: 1183 AD #: 0  
TITLE: The Total Computer Security Problem: An Overview

Author(s): Shankar, K.S.  
Date: 06/01/77 Pages:16 Report #: 0  
Corp. Author: 0

Index Terms: Security Computer Threat Communication Surveillance Military  
Privacy

Accession #: 1184 AD #: 0  
TITLE: A Distributed Secure System

Author(s): Rushby, J.; Randell, B.  
Date: 07/01/83 Pages:13 Report #: 0  
Corp. Author: 0

Index Terms: Policy Security Classification Access Control Code NATO Secret  
Trust Degradation Destruction Communication

Accession #: 1185 AD #: 0  
TITLE: Ballistic Missile Defense: 1944 - 1983

Author(s): Baucom, D.R., LT COL, USAF  
Date: 0 Pages:004 Report #: 0  
Corp. Author: SDIO, The Pentagon, Washington, D.C.

Index Terms: Enemy Missile Vehilce Defense Deployment Army Safeguard China  
Air Force Development Radar Warhead

Accession #: 1186 AD #: 0  
TITLE: SDI Space-Based Battle Management/Command, Control And Communication  
(BM/C3) Experimental Version (EV) Design Phase: Program Management R

Author(s): 0  
Date: 02/10/88 Pages:65 Report #: DI-A-3024A/T  
Corp. Author: SPARTA, Inc., 7926 Jones Branch Dr., Suite 1070, McLean, VA  
22102

Index Terms: Technology Communication Military Application Risk Algorithm  
SDIO Analysis Traceability Allocation Development

Accession #: 1187 AD #: 0  
TITLE: Strategic Defense Initiative Ada\* Process Description Language  
Version 1.00

Author(s): Linn, C.; Linn, J.; Kappel, M.R.; Salasin, J.  
Date: 03/16/87 Pages:53 Report #: P-1983  
Corp. Author: IDA, 1801 N. Beauregard St., Alexandria, VA 22311

Index Terms: SDI Simulation Evaluation Control Management Battle Code  
Architecture

Accession #: 1190 AD #: 0  
TITLE: PLZT Electro-Optic Photographic System

Author(s): Brown, L.L.  
Date: 07/31/87 Pages:48 Report #: 5-32935  
Corp. Author: Univ. of Denver, Colorado Seminary, P.O. Box 10758, Denver,  
CO 80210

Index Terms: Picture Explosive Radiation Optic Propellant Deployment  
Prototype Power Battery Circuitry Suppressor Philosophy Target

Accession #: 1191  
TITLE: SDI Software Testing

AD #: 0

Author(s): 0  
Date: 0 Pages:005 Report #: 1301-07.3  
Corp. Author: 0

Index Terms: Simulation Architecture Model Support Design Development  
Translation Deployment Strategy Battle Feasibility Security

Accession #: 1193 AD #: 0  
TITLE: Situation Assessment And Strategic Planning (SASP) - Algorithm  
Design Document

Author(s): 0  
Date: 08/21/87 Pages:95 Report #: SASP-001-87  
Corp. Author: Navy Research Laboratory

Index Terms: Intelligence Management Attack Predictor Threat Allocation  
Defense Battle Warhead Test Data

Accession #: 1194 AD #: 0  
TITLE: Environment Top Level Design Document

Author(s): 0  
Date: 09/01/87 Pages:61 Report #: ENV-002-87  
Corp. Author: Applied Technology Assoc., 5520 Cherokee Ave., Alexandria, VA  
22312

Index Terms: Control (TTF) Threat Trajectory File Technology Simulation  
Balloon Decoy Launch Error Ballistic Target Kill (SRG) Sensor

Accession #: 1195 AD #: 0  
TITLE: Research for Adaptive Distributed Network Management System:  
Selected Algorithm Description

Author(s): Cain, J.B.; Adams, S.L.; Noakes, M.D., et al  
Date: 11/05/87 Pages:110 Report #: ACN-007B-87  
Corp. Author: Harris Government Aerospace System Div., P.O. Box 94000,  
Melbourne, FL 32902

Index Terms: Metric Algorithm Topology Design Diversity SDI Traffic  
Management Control

Accession #: 1197 AD #: 0  
TITLE: Research for Adaptive, Distributed Network Management System: Final  
report On Algorithm Testing

Author(s): Shaikh, M.A.; Knokee, P.J.; Mohre, C.L.  
Date: 02/16/88 Pages:97 Report #: ACN-015-87  
Corp. Author: Harris Corp., Govt. Sys. Sector, P.O. Box 95000, Melbourne,  
FL 32902

Index Terms: Algorithm Test Survivability Error SDI Security Analysis  
Performance Node Regression

Accession #: 1198 AD #: 0  
TITLE: Research for Adaptive, Distributed Network Management System:  
Algorithm Research Report

Author(s): Cain, J.B.; Adams, S.L.; Noakes, M.D., et al  
Date: 09/25/87 Pages:95 Report #: ACN-019-87  
Corp. Author: Harris Corp., Govt. Sys. Sector, P.O. Box 95000, Melbourne,  
FL 32902

Index Terms: SDI Design Algorithm Topology Node Metric Dissemination  
Cluster Traffic

Accession #: 1199 AD #: 0  
TITLE: Research for Adaptive, Distributed Network Management System: Harris  
Simulation Design Description  
Author(s): Kryst, T.E.; Knoke, P.J.; Mohre, C.L.  
Date: 09/05/86 Pages:30 Report #: ACN-005-87  
Corp. Author: Harris Corp., Govt. Sys. Sector, P.O. Box 95000, Melbourne,  
FL 32902  
Index Terms: Experiment Simulation Configuration Flow Control Node Sensor  
Mapping Algorithm Communication

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Accession #: 1201 AD #: 0  
TITLE: SDI Tracker/Correlator Algorithm Implementation Document  
  
Author(s): Todd, J.; Erbacher, J.A.; Hopkins, C.  
Date: 04/17/87 Pages:120 Report #: T/C-002-87  
Corp. Author: VERAC, Inc., 9605 Scranton Rd., Suite 500, San Diego, CA  
92121-1771  
Index Terms: Algorithm Correlator Processor Software Track Target File  
Vehicle Configuration Cluster Decoy Calculation Module Scan

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Accession #: 1203 AD #: 0  
TITLE: SDI Tracker/Correlator Testbed Design Document-Draft  
  
Author(s): Erbacher, J.A.; Davis, J.S.  
Date: 12/12/86 Pages:129 Report #: T/C-004C-87  
Corp. Author: VERAC Inc., 9605 Scranton Rd., Suite 500, San Diego, CA  
92121-1771  
Index Terms: Algorithm Testbed Design Evaluation Target Trajectory  
Generator Decoy Surveillance Computer Emission Fuselage Noise

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Accession #: 1204 AD #: 0  
TITLE: SDI Tracker/Correlator - Phase One Algorithm Test Report  
  
Author(s): Erbacher, J.A.  
Date: 10/01/87 Pages:120 Report #: T/C-010-87  
Corp. Author: Ball Systems Engineering Division  
  
Index Terms: Analysis Sensor Surveillance Radar Test Algorithm Decoy Launch  
Angle Degree Frequency Velocity Satellite Orbit Ratio Error

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Accession #: 1207 AD #: 0  
TITLE: The Complexity Of AI Algorithms  
  
Author(s): Hartman, C.R.P.; Varshey, P.K., et al  
Date: 09/01/87 Pages:84 Report #: RADC-TR-87-132  
Corp. Author: Syracuse Univ., Sch. of Computer & Info. Sci., 313 Link Hall,  
Syracuse, NY 13244  
Index Terms: Computer Algorithm Research Linear Polynomial Mapping  
Dimension

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Accession #: 1208 AD #: 0  
TITLE: STD--Program Overview Presentation  
  
Author(s): 0  
Date: 03/05/86 Pages:11 Report #: 0  
Corp. Author: IDA, Science & Tech. Div., 1801 N. Beauregard St.,  
Alexandria, VA 22311  
Index Terms: Technology Mission Policy Research DARPA SDIO Phenomenology  
Transportation Security Sensor

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Accession #: 1209 AD #: 0  
TITLE: NTB Integration Contract Work Breakdown Structure, Revision One  
(NTB-202/402-002)  
Author(s): Richmond, C. E.  
Date: 03/31/88 Pages:003 Report #: NTB-88-0206  
Corp. Author: Martin Marietta Info. & Comm. Sys., P.O. Box 1260, Denver, CO  
80201-1260  
Index Terms: Test Bed Research Integration

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Accession #: 1211 AD #: 0  
TITLE: Electromagnetically Launched Micro Spacecraft For Space Science  
Missions  
Author(s): Jones, R. M.  
Date: 01/11/88 Pages:009 Report #: AA-88-0068  
Corp. Author: Amer. Inst. of Aeronautics and Astronautics, 555 W. 57th St.,  
New York, NY 10019  
Index Terms: Launch Technology Catastrophy Space Development Energy Railgun  
Magnetosphere Mission Mars Solar Science Kinetic

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Accession #: 1212 AD #: 0  
TITLE: An Overview of DOE and SDIO MHD Program Activities at PETC  
  
Author(s): Carabetta, R.A.; Chambers, H.F. Jr., et al  
Date: 01/11/88 Pages:11 Report #: AA-88-0720  
Corp. Author: Amer. Inst. of Aeronautics and Astronautics, 370 L'Enfant  
Prom., Wash., D.C.  
Index Terms: Technology NASA SDIO DOE Gas Liquid Compression Kinetic Energy  
Reaction Potassium Oxygen Integration Test Explosion

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Accession #: 1215 AD #: 0  
TITLE: History Of Strategic Defense: Final Report  
  
Author(s): Maust, R.L.; Goodman, G.W. Jr.; McLain, C.E.  
Date: 09/01/81 Pages:029 Report #: SPC-742  
Corp. Author: System Planning Corporation, 1500 Wilson Blvd., Arlington, VA  
22209  
Index Terms: Civil Missile Defense Attack Ballistic Space Science  
Development Deterrence Hostility Aircraft Balance

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Accession #: 1216 AD #: 0  
TITLE: Principled Realism: A Foundation for U.S. Foreign Policy  
  
Author(s): Whitehead, J.C.  
Date: 03/16/88 Pages:003 Report #: 1059  
Corp. Author: U.S. Dept. of State, Bureau of Public Affairs, Washington,  
D.C.  
Index Terms: Government Politics Security Policy Soviet Union Brazil  
Aggression Angola Nuclear Strategic Weapon Defense West Bank

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Accession #: 1217 AD #: 0  
TITLE: Executive Summary and Final Report for Hostile Booster Trajectory  
Estimation  
Author(s): Wright, J.R.  
Date: 05/29/87 Pages:50 Report #: RADC/ATA Task No. 001  
Corp. Author: Applied Technology Associates, Inc., Delaware  
  
Index Terms: Algorithm Sensor Rocket ICBM Design Error Spacecraft  
Resolution Launch Target Simulation

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Accession #: 1218 AD #: 0  
TITLE: An Analysis of Multiple Grain CHiP Architectures: Final report  
Author(s): Snyder, L.  
Date: 09/01/86 Pages:10 Report #: FR-35  
Corp. Author: Dept. of Computer Science, Univ. of Washington, Seattle,  
Washington 98195  
Index Terms: Architecture Computation Analogy Logic Propagation Conversion  
Array Research

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Accession #: 1221 AD #: 0  
TITLE: FY 1989 Assistance Proposals for the Middle East and North Africa  
Author(s): Murphy, R.W.  
Date: 03/24/88 Pages:003 Report #: 1063  
Corp. Author: United States Dept. of State, Bureau of Public Affairs,  
Washington, D.C.  
Index Terms: Middle East Negotiation Threat Security Egypt War Peace  
Support Economy

---

Accession #: 1222 AD #: 0  
TITLE: Meeting the Challenge of Budgetary Austerity  
Author(s): Spiers, R.I.  
Date: 03/30/88 Pages:003 Report #: 1064  
Corp. Author: U.S. Dept. of State, Bureau of Public Affairs, Washington,  
D.C.  
Index Terms: Mission Diplomat Korea Democracy Terrorist Spain Resolution  
Security Radarscope Congress GAO (General Accounting Office)

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Accession #: 1224 AD #: 0  
TITLE: SDI Sensor Data Fusion: A Discussion Paper  
Author(s): 0  
Date: 01/01/88 Pages:005 Report #: 0  
Corp. Author: Advanced Sys. Architectures Ltd., 73-79 Park St., Camberley  
Surrey, UK GU15 3PE  
Index Terms: Methodology Fusion United Kingdom Algorithm Sensor  
Architecture Solution Simulation Post Post-Phase Technology

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Accession #: 1227 AD #: 0  
TITLE: Demonstration Of Specification Methodology For SDI Sensor Data  
Fusion: Volume I - Final Report  
Author(s): 0  
Date: 03/15/88 Pages:166 Report #: T88/001  
Corp. Author: Advanced Sys. Architectures Ltd., 73-79 Park St., Camberley  
Surrey, GU15 3PE UK  
Index Terms: Fusion Ballistic Missile Decomposition SDI Philosophy Sensor  
Architecture Design Trajectory

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Accession #: 1229 AD #: 0  
TITLE: Demonstration Of Specification Methodology For SDI Sensor Data  
Fusion: Volume II - Phase II Report  
Author(s): 0  
Date: 01/15/87 Pages:15 Report #: SDI/D039F  
Corp. Author: Advanced Sys. Architectures, 73-79 Park St., Camberley  
Surrey, GU15 3PE UK  
Index Terms: United Kingdom Sensor Fusion Methodology Transition Design  
Broadcast Allocation Battle Management Global Algorithm

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Accession #: 1232 AD #: 0  
TITLE: Technical And Analytic Support Contract For Sensors Signal  
Processing Management: First Monthly Report  
Author(s): Madden, E.  
Date: 04/15/88 Pages:008 Report #: 0  
Corp. Author: Nichols Research Corporation, 4040 S. Memorial Pwky,  
Huntsville, AL 35802-1326  
Index Terms: Technology Sensor Support NRC SDIO

Accession #: 1233 AD #: 0  
TITLE: Proposal To Defense Advanced Projects Agency: Strategic Computing  
Support  
Author(s): Uncapher, K.W., Director  
Date: 12/22/86 Pages:77 Report #: 0  
Corp. Author: ISI, USC, Los Angeles, CA 900089-1147  
Index Terms: Military FBI Configuration Software Media Science Computer  
Microsystem DARPA

Accession #: 1235 AD #: 0  
TITLE: Dynamic Simulations Of Large-Scale Directed Energy Missile Defense  
Boost Phase Engagements  
Author(s): Parks, A.D.  
Date: 11/01/86 Pages:24 Report #: NSWC-TR-85-271  
Corp. Author: Naval Surface Weapons Center, Dahlgren, VA 22448-5000  
Index Terms: Simulation Laser Space ICBM (Intercontinental Ballistic  
Missile) Hostility Leakage Weapon Boost Engagement

Accession #: 1236 AD #: 0  
TITLE: Eastport Assessment of NTB Program  
Author(s): Gardner, J.L.  
Date: 10/27/86 Pages:0 Report #: 0  
Corp. Author: 0  
Index Terms: Eastport NTB (National Test Bed) Simulation Technology  
Configuration Evaluation Defense Integration Strategy

Accession #: 1237 AD #: 0  
TITLE: The Cutting Edge of Defense Computing  
Author(s): Hershey, J.E.  
Date: 11/01/86 Pages:005 Report #: 0  
Corp. Author: 0  
Index Terms: Military Density Computation Technology Algorithm Weapon  
Missile Circuit Trajectory Limitation Development

Accession #: 1240 AD #: 0  
TITLE: Software Development Structure: Technical Report Research and  
Development Status Report  
Author(s): Jones, G.M.  
Date: 12/15/87 Pages:006 Report #: 0  
Corp. Author: TRW System Dev. Div., Huntsville Opers., 213 Wynn Dr.,  
Huntsville, AL 35805  
Index Terms: Technical Architecture Methodology Design Compute Algorithm  
Simulation Conversion Capability Response Configuration



Accession #: 1242 AD #: 0  
TITLE: Quality Programming: Developing and Testing Software with Statical  
Quality Control  
Author(s): Cho, Chin-Kuei  
Date: 05/26/88 Pages:003 Report #: 0  
Corp. Author: IBM, 6610 Rockledge Drive, Bethesda, MD 20817  
  
Index Terms: Mission Test Development Control Error Axiomatic Module  
Methodology

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Accession #: 1245 AD #: 0  
TITLE: Review of SDIO-SBIR Phase II Proposal: Hierarchical, State Table  
Driven Software for Strategic Defense Battle Management  
Author(s): Haynes, L.S., Dr.  
Date: 12/03/87 Pages:60 Report #: 0  
Corp. Author: Intelligent Automation Inc., 1715 Glastonberry Rd.,  
Rockville, MD 20854  
Index Terms: Battle Management Control Research Space Feasibility SDI  
Vehicle Communication

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Accession #: 1247 AD #: 0  
TITLE: Portable Implementation of a Generic Exponential Function in ADA  
  
Author(s): Tang, P.  
Date: 02/01/88 Pages:31 Report #: ANL-88-3  
Corp. Author: Argonne National Laboratory, 9700 S. Cass Ave., Argonne, IL  
60439  
Index Terms: Math Error Analysis Reduction Radix Implementation Solution  
Generic Numeral Illustration Vax

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Accession #: 1249 AD #: 0  
TITLE: An Evaluation Methodology For Dependable Multiprocessors  
  
Author(s): Trad, D.F.  
Date: 03/01/88 Pages:76 Report #: RADC-TR-88-23  
Corp. Author: SRI International, 333 Ravenwood Avenue, Menlo Park, CA  
94025-3493  
Index Terms: Computer Evaluation Methodology Performance Fault Tolerance  
Analysis Development Algorithm Software

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Accession #: 1251 AD #: 0  
TITLE: BM/C3 Approach Comparison - March 1988  
  
Author(s): 0  
Date: 03/01/88 Pages:25 Report #: 0  
Corp. Author: Vangaurd Research, Inc., 2810 Old Lee Hwy., Ste. 200,  
Fairfax, VA 22301-4304  
Index Terms: Filter Conversion Sensor Battle Earth Signal Assessment Space  
Fire Allocation Network

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Accession #: 1252 AD #: 0  
TITLE: Review Draft Soviet Strategic Defense and Spare Programs  
  
Author(s): Philliphs, D.W.  
Date: 07/28/87 Pages:22 Report #: U-1064/DB  
Corp. Author: Defense Intelligence Agency, Washington, D.C. 20340-6100  
  
Index Terms: Space Defense USSR Radar ABM Treaty United States Siberia  
Technology Moscow Ballistic Missile Detection Satellite Orbit

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Accession #: 1253 AD #: 0  
TITLE: SRS Technical Note: How Defense Work and the Implications for  
Strategic Defense Architectures  
Author(s): Cooper, J.; Pena, C.; Bue, K.  
Date: 08/12/87 Pages:23 Report #: TN-MA-87-001  
Corp. Author: SRS Technologies, 1500 Wilson Blvd., Suite 800, P.O. Box  
12707, Arl. VA 22209  
Index Terms: Technology Target Defense Attack Midcourse Boost Architecture  
Soviet Mission Ballistic Missile Space

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Accession #: 1254 AD #: 0  
TITLE: Performing Behavior of Distributed Battle Managers with Divergence  
Between Data Bases  
Author(s): 0  
Date: 08/26/87 Pages:12 Report #: 0  
Corp. Author: MITRE  
Index Terms: Platform Target Weapon Battle Management Algorithm Fire Global

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Accession #: 1256 AD #: 0  
TITLE: Why Perform A Study On Man's Role ?  
Author(s): 0  
Date: 06/25/87 Pages:15 Report #: 0  
Corp. Author: Institute For Defense Analyses, 1801 N. Beuregard St., Alex.  
VA 22311  
Index Terms: Command Development Technology Experiment Strategy Attack  
Configuration Defense Warning Research

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Accession #: 1257 AD #: 0  
TITLE: RADC Software Engineering For High Confidence Software  
Author(s): DI Nitto, S.A., JR  
Date: 0 Pages:45 Report #: 0  
Corp. Author: 0  
Index Terms: Technology Shuttle Tolerance Architecture Bomb Security  
Software

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Accession #: 1258 AD #: 0  
TITLE: Strategic Defense System Program Overview  
Author(s): Graham, J.L., JR COL, USAF  
Date: 02/26/88 Pages:30 Report #: 0  
Corp. Author: DoD, SDIO, Washington, D.C. 20301-7100  
Index Terms: SDI Acquisition Mission Threat Surveillance Sensor Technology  
Test Launch Algorithm Development Research

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Accession #: 1259 AD #: 0  
TITLE: U.S. Army Strategic Defense Command  
Author(s): 0  
Date: 03/01/86 Pages:44 Report #: 0  
Corp. Author: 0  
Index Terms: Analysis Engagement

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Accession #: 1261 AD #: 0  
TITLE: Solid-State Laser Research Report: Energy Transfer In Non-Uniform  
Codoped Crystals  
Author(s): Rotman, S.R.; Hartman, F.X.  
Date: 03/01/88 Pages:63 Report #: M-405  
Corp. Author: Institute For Defense Analysis, 1801 N. Beauregard St.,  
Alexandria, VA 22311  
Index Terms: Energy Gradient Crystal Simulation Laser Earth Microscopic  
Radiation Ion

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Accession #: 1263 AD #: 0  
TITLE: Report To The Congress On The Strategic Defense Initiative: April  
1988  
Author(s): 0  
Date: 04/01/88 Pages:120 Report #: 0  
Corp. Author: The Strategic Defense Initiative Organization, Washington,  
D.C.  
Index Terms: Technology Strategy Missile Defense NTB (National Test Bed)  
Mission Control Airborne Optical Radar Allocation SDIO

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Accession #: 1266 AD #: 0  
TITLE: Strategic Defense Initiative Advisory Committee (SDIAC) Meeting  
Author(s): 0  
Date: 01/08/87 Pages:145 Report #: IDA E87-221304  
Corp. Author: Institute For Defense Analyses, 1801 N. Beauregard St.,  
Alexandria, VA 22311  
Index Terms: Policy Network Threat DARPA Automation Security Thrust  
Algorithm Weapon

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Accession #: 1267 AD #: 0  
TITLE: SDI Neutral Particle Beam Program Master Plan: Critical BM/C3 Issues  
Input  
Author(s): Harmon, N.F.; Shumilla, S.W.; Ware, H.C.  
Date: 03/01/88 Pages:27 Report #: WP-28702  
Corp. Author: MITRE  
Index Terms: SDIO Particle Beam Energy Telemetry Mission Command Control  
Boost Communication Battle Space Survivability Allocation

---

Accession #: 1268 AD #: 0  
TITLE: Review of Fault Tolerance Effort: Final Report  
Author(s): Gilley, G.  
Date: 01/13/87 Pages:10 Report #: 0  
Corp. Author: 0  
Index Terms: Technology Security SDI Hypercube Tolerance Computation  
Performance Fault

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Accession #: 1269 AD #: 0  
TITLE: Strategic Defense Initiative System Description Language (SDI-SDL)  
Version 1.2  
Author(s): 0  
Date: 10/26/87 Pages:58 Report #: 0  
Corp. Author: 0  
Index Terms: Language SDI Technology Radar

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Accession #: 1270 AD #: 0  
TITLE: Integrated Computer-Aided Manufacturing (ICAM)

Author(s): 0  
Date: 06/01/81 Pages:70 Report #: UM 110231300  
Corp. Author: Softech, Inc., 460 Totten Pond Rd., Waltham, MA 02154

Index Terms: Architecture Integration Computer Analysis Methodology  
Simulation Communication

Accession #: 1272 AD #: 0  
TITLE: Midcourse Sensor Study BM/C3 Constructs for Initial System Concepts

Author(s): Johnson, C; Kantak, J.; Franklin, B.; Van Horn, B.  
Date: 10/19/87 Pages:36 Report #: 0  
Corp. Author: 0

Index Terms: Attack Management Algorithm Command Boost Midcourse Allocation  
Constellation Sensor Cluster Satellite Policy Kill Assessment

Accession #: 1273 AD #: 0  
TITLE: Status Report on the Systems Architecture and Key Trades (SAKT)  
Study for March and April 1988

Author(s): Patterson, K.E.  
Date: 05/03/88 Pages:004 Report #: 0  
Corp. Author: SAIC, 1710 Goodridge Drive, P.O. Box 1303, McLean, VA 22102

Index Terms: Support Architecture Mission Midcourse Integration  
Survivability Analysis

Accession #: 1274 AD #: 0  
TITLE: Hypercube Management In The Presence Of Node Failures

Author(s): Kandlur, D.D.; Shin, K.G.  
Date: 01/01/88 Pages:009 Report #: 0  
Corp. Author: The University of Michigan, Ann Arbor, MI 48109-2122

Index Terms: Simulation Multiprocessor Subcube Hypercube Algorithm Computer  
Node Reconfiguration Fragment

Accession #: 1275 AD #: 0  
TITLE: Message Routing in an Injured Hypercube

Author(s): Chen, M.; Shin, K.G.  
Date: 01/01/88 Pages:006 Report #: 0  
Corp. Author: The University of Michigan, Ann Arbor, MI 48109-2122

Index Terms: Hypercube Algorithm Tolerance Failure Node Dimension Analysis

Accession #: 1276 AD #: 0  
TITLE: SDI Entry-Level Communications Architecture And Technology

Author(s): 0  
Date: 0 Pages:30 Report #: 0  
Corp. Author: McDonnell Douglas

Index Terms: Architecture Communication Traffic Path Detection Sensor Error  
Fire Wavelength Telescope Beam Technology

Accession #: 1277 AD #: 0

TITLE: Briefing To DART: 31 March 1988

Author(s): Brown, B. LTC

Date: 03/31/88 Pages:30 Report #: 0

Corp. Author: 0

Index Terms: Launch Survivability BM/C3 Prototype Star Test Evaluation  
Strategy Air Force Congress

Accession #: 1278 AD #: 0

TITLE: The Expanding Universe of John Pike

Author(s): Rumsey, A.E.

Date: 04/01/88 Pages:11 Report #: 0

Corp. Author: States News Service, Washington, D.C.

Index Terms: Security Media SDI Deployment Defense Research Population  
Weapon

Accession #: 1279 AD #: 0

TITLE: Phase One Strategic Defense System

Author(s): 0

Date: 01/13/88 Pages:10 Report #: 0

Corp. Author: 0

Index Terms: Air Force Missile Space Navy

Accession #: 1282 AD #: 0

TITLE: Point Paper On New Iterative For Solving Linear Least Squares  
Problems

Author(s): 0

Date: 12/01/87 Pages:15 Report #: 0

Corp. Author: Engineering Software Research, Inc., P.O. Box 4653, Mountain  
View, CA 94040

Index Terms: Linear Square Solution Demonstration Equation Dimension Array  
Matrix

Accession #: 1283 AD #: 0

TITLE: Point Paper On BMD Phase I Concept Of Operations

Author(s): 0

Date: 11/12/87 Pages:008 Report #: 0

Corp. Author: 0

Index Terms: Ballistic Missile Defense (BMD) Development Deployment Scope  
Integration Evaluation Space Support Transition

Accession #: 1285 AD #: 0

TITLE: Ballistic Missile Defense: 1944-1983

Author(s): Baucom, D.R. LT COL, USAF

Date: 02/01/88 Pages:003 Report #: 0

Corp. Author: SDIO

Index Terms: Enemy Attack Missile Air Force Deployment President Nixon  
Safeguard ICBM Radar Computer Target

Accession #: 1286  
TITLE: Sofaer-Nunn "Debate"

AD #: 0

Author(s): Carroll, W.H.  
Date: 12/15/87 Pages:11 Report #: 0  
Corp. Author: The United States Congress, Washington, D.C.

Index Terms: Congress Technology Treaty Soviet Union Threat Test Evaluation  
Interceptor Missile Radar Development Negotiation Defense

Accession #: 1287  
TITLE: SDI BM/C3 Software Development Guidelines (SDG)

AD #: 0

Author(s): 0  
Date: 0 Pages:16 Report #: 0  
Corp. Author: 0

Index Terms: Support Integration Balance Innovation Concept Production SDI  
BM/C3 Communication Phase Evaluation Rationale

Accession #: 1289  
TITLE: Survivable Satellite Crosslinks Lasercom And 60-GHz RF

AD #: 0

Author(s): 0  
Date: 09/23/86 Pages:009 Report #: 0  
Corp. Author: Naval Research Laboratory

Index Terms: Technology Survival Laser Crosslink Diode Device Configuration  
Test Nuclear Space

Accession #: 1291  
TITLE: USASDC'S BM/C3 Experimental Version (EV) Program

AD #: 0

Author(s): Tubbs, L.A.  
Date: 0 Pages:18 Report #: 0  
Corp. Author: USA Strategic Defense Command

Index Terms: Capability Research BM/C3 Evaluation Threat Simulation  
Algorithm Communication Support Testbed Engagement

Accession #: 1293  
TITLE: Interim Report of the SDIO Panel on the Security and Integrity of SDI  
Assets

AD #: 0

Author(s): 0  
Date: 01/01/88 Pages:45 Report #: 0  
Corp. Author: The Pymatuning Group, Inc., 2000 N. 15th St., Arlington, VA  
22201

Index Terms: Security Development NTB (National Test Bed) Algorithm Battle  
Management Concealment Countermeasure Methodology Space

Accession #: 1294  
TITLE: Space Based Experimental Version (SBEV) Three Month Demonstration (17-19 Feb 88) - Documentation

AD #: 0

Author(s): Oldenburg, T.J. Lt Col, USAF  
Date: 05/04/88 Pages:110 Report #: 0  
Corp. Author: SPARTA, Inc., 7926 Jones Branch Drive, Suite 1070, McLean, VA  
22102

Index Terms: BM/C3 Design Demonstration Evaluation Resolution Baseline  
Boost Phase Detection Launch Assessment Simulation

Accession #: 1296 AD #: 0  
TITLE: Strategic Defense Initiative Organization: Innovative Science and  
Technology Office  
Author(s): 0  
Date: 0 Pages:40 Report #: 0  
Corp. Author: SDIO/ISTO, Washington, D.C. 20301-7100  
Index Terms: Technology Science Mission SDI Research Feasibility Kinetic  
Energy Wavelength Control Nuclear Space Propulsion Sensor

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Accession #: 1297 AD #: 0  
TITLE: Laser Communications  
Author(s): 0  
Date: 0 Pages:005 Report #: 0  
Corp. Author: McDonnell Douglas Astronautics Co., Def. Elec., St. Louis, MO  
63166  
Index Terms: Threat Communication Laser Wavelength Command Intelligence  
Space Satellite Security Aircraft Kilobit Submarine Defense

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Accession #: 1298 AD #: 0  
TITLE: Source Region Electromagnetic Effects Phenomena: Volume V - Analytic  
Solutions for SREMP Environments  
Author(s): Van Alstine, P.W.; Schlessinger, L.  
Date: 04/25/86 Pages:52 Report #: PSR-1588  
Corp. Author: Pacific-Sierra Research Corp., 12340 Santa Monica Blvd., Los  
Angeles, CA 90025  
Index Terms: Phenomenology Conversion Reduction Equation Solution Space

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Accession #: 1299 AD #: 0  
TITLE: Strategic Defense Initiative Organization Management And Control  
Issues  
Author(s): 0  
Date: 03/29/88 Pages:18 Report #: 0  
Corp. Author: United States General Accounting Office  
Index Terms: SDIO DoD Research Analysis Development Control Management

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Accession #: 1300 AD #: 0  
TITLE: Funds Expenditure Reports, Contract Funds Status, and R & D Status  
Reports for April 1988  
Author(s): Agrawala, A.K.  
Date: 05/23/88 Pages:26 Report #: 0  
Corp. Author: The University Of Maryland, College Park, Maryland 20742  
Index Terms: Analysis Fault Evaluation Test Node Allocation Communication  
Tolerance Architecture

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Accession #: 1301 AD #: 0  
TITLE: Video Terminal - VT320: Illustrated Parts Breakdown  
Author(s): 0  
Date: 0 Pages:12 Report #: 0  
Corp. Author: Digital Equipment Corporation, 12 Crosby Dr. BUO/E08,  
Bedford, MA 01730-1493  
Index Terms: Terminal Code Publication Assembly Monitor Protection  
Equipment

---

Accession #: 1302 AD #: 0  
TITLE: WY-50 Display Terminal: Reference Manual

Author(s): 0  
Date: 0 Pages:45 Report #: 0  
Corp. Author: WYSE Technology, 3571 N. First St., San Jose, CA 95135-9990

Index Terms: Cable Voltage Safety Application Exposure Radio Interference  
Ray Tube Keyboard Configuration Communication Default Modem

---

Accession #: 1303 AD #: 0  
TITLE: EMBOS User's Guide To Ethernet

Author(s): 0  
Date: 04/01/86 Pages:31 Report #: 9860  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 942-0900

Index Terms: Fusion Operation Configuration Application Control Error  
Database Network Research Communication

---

Accession #: 1304 AD #: 0  
TITLE: ELXSI: System 6400 Introduction

Author(s): 0  
Date: 01/01/84 Pages:67 Report #: 0  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Central Processing Unit (CPU) Protection Terminology ASCII  
Detection COBOL Language Allocation Communication

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Accession #: 1305 AD #: 0  
TITLE: Video Products: CIT224 User's Manual

Author(s): 0  
Date: 11/01/85 Pages:70 Report #: P.N. 093-056  
Corp. Author: CIE Terminals

Index Terms: Terminal Radio Communication Cable Loop Protocol Installation  
Menu Terminology Transmission Configuration

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Accession #: 1307 AD #: 0  
TITLE: Field Maintenance Print Set: VT320

Author(s): Harvey, B.  
Date: 01/01/87 Pages:20 Report #: K-TC-VT-320-0-0  
Corp. Author: Digital Equipment Corporation

Index Terms: Power Schematic Supply Module Unit Assembly

---

Accession #: 1308 AD #: 0  
TITLE: Embos User's Guide, Volume 1 - Version 2.00

Author(s): 0  
Date: 12/01/83 Pages:75 Report #: 0  
Corp. Author: ELXSI 2334 Lundy Place, San Jose, CA. 95131

Index Terms: Terminal Computer Parameter Command Structure Input Output  
Error Implementation Security

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Accession #: 1309 AD #: 0  
TITLE: Embos User's Guide, Volume II - Version 2.00

Author(s): 0  
Date: 12/01/83 Pages:75 Report #: 0  
Corp. Author: ELXSI 2334 Lundy Place, San Jose, CA. 95131

Index Terms: Abort Suspend Break Cancel Job Print Terminate Copy

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Accession #: 1310 AD #: 0  
TITLE: System Administrator's Guide, Volume I - Version 1.00

Author(s): 0  
Date: 03/01/83 Pages:75 Report #: 0  
Corp. Author: ELXSI 2334 Lundy Place, San Jose, CA. 95131

Index Terms: System Power Command Magnetic Tape Terminal Security Disk

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Accession #: 1311 AD #: 0  
TITLE: System Administrator's Guide, Volume II - Version 1.02

Author(s): 0  
Date: 02/01/84 Pages:45 Report #: 0  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Parameter Command Operator Configuration Tape User Translation  
Security Spooling Terminal

---

Accession #: 1312 AD #: 0  
TITLE: System Architecture: Second Edition

Author(s): 0  
Date: 10/01/83 Pages:100 Report #: 0  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Function Link Target Transit Buffer Transport Error Memory  
Architecture Data Arithmetic Language

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Accession #: 1313 AD #: 0  
TITLE: Display Terminal Maintenance Manual (WY-50/WY-50+)

Author(s): 0  
Date: 01/01/86 Pages:80 Report #: 880020-01 Rev. B  
Corp. Author: Wyse Technology, 3571 N. First St., San Jose, CA 95134

Index Terms: Troubleshoot Theory Operation Memory Telecommunication Fuse  
Microprocessor Terminal Magnet Oscillator Map Schematic

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Accession #: 1314 AD #: 0  
TITLE: Diagnostics Manual: ELXSI System 6400 - Version 1.1

Author(s): 0  
Date: 07/01/86 Pages:85 Report #: 0  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Central Processing Unit (CPU) Input Output Disk Test Memory  
Interface Terminal Notation Directory Command Configuration

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Accession #: 1315 AD #: 0  
TITLE: Site Preparation Guide - Version 2.00

Author(s): 0  
Date: 02/01/85 Pages:30 Report #: 0  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Layout Data Information Connector Worksheet Design Safety Fire  
Electric Tape Power Mainframe Conversion Heat Assembly

Accession #: 1316 AD #: 0  
TITLE: Maintenance Manual - Version 1.00

Author(s): 0  
Date: 02/01/86 Pages:111 Report #: 0  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Control Card Power Terminal Array Memory Interface Supply Disk  
Modem Connection Assembly Sensor Filter Voltage

Accession #: 1317 AD #: 0  
TITLE: IRIS USER'S GUIDE VOL I: PROGRAMMING GUIDE: Version 4.0

Author(s): 0  
Date: 01/01/87 Pages:250 Report #: 007-1101-040  
Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA  
94039-7311

Index Terms: Programming Graphic Transformation Input Output Style Pattern  
Font Window Code Geometry Cubic Pipeline Curve Mathematics

Accession #: 1318 AD #: 0  
TITLE: IRIS USER'S GUIDE VOL II: Graphics Reference

Author(s): 0  
Date: 01/01/87 Pages:250 Report #: 007-1101-040  
Corp. Author: Silicon Graphics, Inc. Mountain View, CA.

Index Terms: Reference Programming Graphic Transformation Input Output  
Style Pattern Font Window Code Computation

Accession #: 1319 AD #: 0  
TITLE: Unix Programmer's Manual Vol-IA: Commands (A-L; M-Z)

Author(s): 0  
Date: 12/01/87 Pages:250 Report #: 007-0101-030  
Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA  
94043

Index Terms: Reference Programming Graphic Application Workstation File  
Field Database Command Communication Language Pascal Fortran

Accession #: 1320 AD #: 0  
TITLE: IRIS Unix Programmer's Manual Vol-IB: System Calls and Subroutines -  
Version 3.0

Author(s): 0  
Date: 12/01/87 Pages:250 Report #: 007-0102-030  
Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA  
94043

Index Terms: Reference Programming Graphic Application Workstation File  
Field Database Command

Accession #: 1321 AD #: 0

TITLE: IRIS Series 3000 Owner's Guide

Author(s): 0

Date: 01/01/87 Pages:250 Report #: 007-5220-030

Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA  
94043

Index Terms: Hardware Workstation Terminal System Installation File  
Component Software Program

Accession #: 1322 AD #: 0

TITLE: IRIS Unix Programmer's Manual Vol-IIA, Language and Tools: Version  
1.0

Author(s): 0

Date: 01/01/86 Pages:250 Report #: 007-0103-010

Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA  
94043

Index Terms: Document Program System Terminal User Text Command Path  
Interrogate File Manual Language Information Password

Accession #: 1323 AD #: 0

TITLE: Unix Programmer's Manual: IIB Languages and Tools

Author(s): 0

Date: 01/01/86 Pages:250 Report #: 007-0104-020

Corp. Author: Silicon Graphics, Inc. Mountain View, CA.

Index Terms: Input Output Format System Software Utility Programming File  
Hardware Compiler Processing

Accession #: 1324 AD #: 0

TITLE: IRIS Communications Guide Update Package: Version 1.1

Author(s): 0

Date: 01/01/86 Pages:250 Report #: 007-0390-011

Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA  
94043

Index Terms: Communication Graphic Protocol Programmer Mail System Software  
User Terminal Workstation File Directory

Accession #: 1325 AD #: 0

TITLE: Getting Started with Your IRIS Workstation

Author(s): 0

Date: 01/01/86 Pages:250 Report #: 007-7001-010

Corp. Author: Silicon Graphics, Inc. 2011 Stierlin Rd., Mountain View, CA  
94043

Index Terms: Geometry Graphic Command Program Directory System Terminal  
Workstation File Lesson FORTRAN

Accession #: 1326 AD #: 0

TITLE: IRIS Programming Tutorial

Author(s): 0

Date: 01/01/86 Pages:150 Report #: 007-1103-010

Corp. Author: Silicon Graphics, Inc. Mountain View, CA.

Index Terms: Graphic Library Command Programming System Directory  
Workstation Mode Window

Accession #: 1367 AD #: 0  
TITLE: VT320 Pocket Service Guide

Author(s): 0  
Date: 07/01/87 Pages:55 Report #: EK-VT320-PS-001  
Corp. Author: Digital Equipment Corp., Maynard, MA. 01754

Index Terms: Video Terminal Loopback Test Assembly Screen Test Adjustment  
Horizontal Vertical

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Accession #: 1368 AD #: 0  
TITLE: Installing and Using the VT320 Video Terminal

Author(s): 0  
Date: 06/01/87 Pages:100 Report #: EK-VT320-UG-001  
Corp. Author: Digital Equipment Corp., Maynard, MA. 01754

Index Terms: Video Terminal Screen Format Directory Printer Signal  
Connector Keypad Numeric

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Accession #: 1369 AD #: 0  
TITLE: VT320 Programmer Reference Manual

Author(s): 0  
Date: 07/01/87 Pages:260 Report #: EK-VT320-RM-001  
Corp. Author: Digital Equipment Corp., Maynard, MA. 01754

Index Terms: Video Terminal Character Encoding Graphic Format Screen  
Parameter Control

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Accession #: 1370 AD #: 0  
TITLE: Maintenance Manual For Video Terminal Model CIT224 (F)

Author(s): 0  
Date: 09/01/87 Pages:150 Report #: P.N. 093-073  
Corp. Author: C.Itoh Electronics

Index Terms: Video Terminal Monitor Memory Program Keyboard Vertical  
Horizontal Circuit Diagram

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Accession #: 1371 AD #: 0  
TITLE: The SRBS Operations Manual

Author(s): Mr. Craig Hayes  
Date: 04/25/88 Pages:35 Report #: F19628-88-C-0012  
Corp. Author: Martin Marietta Corp. P. O. Box 1260, Denver, CO. 80201-1260

Index Terms: Operation Document Surveillance CSCI Weapon Communication  
Assumption Limitation

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Accession #: 1372 AD #: 0  
TITLE: The SRBS User's Manual

Author(s): Mr. Craig Hayes  
Date: 04/25/88 Pages:20 Report #: F19628-88-C-0012  
Corp. Author: Martin Marietta Corp. P. O. Box 1260, Denver, CO. 80201-1260

Index Terms: User Document Overview Terminal File Input Output Workstation  
Graphic Instruction

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Accession #: 1373 AD #: 0  
TITLE: Developing Software To Use Parallel Processing Effectively  
  
Author(s): Center, J.  
Date: 10/01/88 Pages:184 Report #: RADC-TR-88-203  
Corp. Author: Dynamics Research Corp., 60 Frontage Rd., Andover, MA 01810  
  
Index Terms: Evaluation Hypercube Polyolith Architecture Asymptotic Circuit  
Communication Cluster

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Accession #: 1374 AD #: 0  
TITLE: The SWARM User's Manual  
  
Author(s): Mr. Steven Woodcock  
Date: 05/01/88 Pages:175 Report #: F19628-88-C-0012  
Corp. Author: Martin Marietta Corp. P. O. Box 1260, Denver, CO. 80201-1260  
  
Index Terms: Swarm Toolset Overview Operational Technical Manual System  
Terminal Queue

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Accession #: 1375 AD #: 0  
TITLE: SPSS Statistical Algorithms  
  
Author(s): 0  
Date: 01/01/85 Pages:230 Report #: CN83-60118  
Corp. Author: SPSS Inc. 444 N. Michigan Ave., Chicago, IL. 60611  
  
Index Terms: ALSCAL ANOVA Cluster Factor Frequency Condscriptive Breakdown  
Hiloglinear Loglinear

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Accession #: 1376 AD #: 0  
TITLE: SDI Technology Survivability and Software  
  
Author(s): 0  
Date: 05/01/88 Pages:300 Report #: OTA-ISC-353  
Corp. Author: U. S. Congress Office of Technology Assessment, Washington,  
D.C.  
  
Index Terms: Software Ballistic Missile System Technology Integration  
Countermeasure Defensive Suppression Sensor

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Accession #: 1377 AD #: 0  
TITLE: Frame Maker User's Manual  
  
Author(s): 0  
Date: 11/01/87 Pages:190 Report #: P/N 41-00122-02  
Corp. Author: Frame Tech. Corp. 2911 Zanker Rd., San Jose, CA. 95134  
  
Index Terms: Manual Frame Maker File Create Document Dialog Box  
Installation Window Text

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Accession #: 1379 AD #: 0  
TITLE: Artificial Intelligence and SDI Battle-Management/C3  
  
Author(s): Garvey, T. D.  
Date: 07/23/86 Pages:23 Report #: 0  
Corp. Author: SRI International, 333 Ravenswood Ave., Menlo Park,  
California 94025  
  
Index Terms: SDI Technology Architecture Development Sensor Weapon Battle  
Management Simulation Research Topology Kill Decoy Attack

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Accession #: 1380 AD #: 0

TITLE: Background On Space Nuclear Power

Author(s): Aftergood, S.

Date: 05/01/88 Pages:15 Report #: 0

Corp. Author: Comm. to Bridge the Gap, 1637 Butler Avenue, Suite 203, Los Angeles, CA 90025

Index Terms: Space Nuclear U.S.S.R. Launch Configuration Radiation Power Reactor Neutron Weapon SDI Heat Isotope Directed Energy Weapon

Accession #: 1381 AD #: 0

TITLE: U.S.- Soviet Proposal to Ban Nuclear Power in Orbit

Author(s): 0

Date: 0 Pages:002 Report #: 0

Corp. Author: Fed. Of American Scientists, 307 Mass. Ave., N.E., Washington, D.C. 20002

Index Terms: Satellite Surveillance Reactor Nuclear Energy Space Orbit Radiation Neutron Detection

Accession #: 1382 AD #: 0

TITLE: FAS Statement On The Joint Proposal Of The Committee Of Soviet Scientists And FAS For A Ban On Nuclear Power In Earth Orbit

Author(s): 0

Date: 0 Pages:002 Report #: 0

Corp. Author: Fed. Of American Scientists, 307 Mass. Ave., N.E., Washington, D.C. 20002

Index Terms: Reentry Deployment Kilometer Failure SDI Weapon Reactor Satellite Risk Radioactivity Discrimination Militarization

Accession #: 1383 AD #: 0

TITLE: IRIS FORTRAN Manual - Version 1.0

Author(s): Barth, J.; Glanville, S.; McGilton, H.

Date: 01/01/86 Pages:80 Report #: 007-0210-010

Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA 94043

Index Terms: Flow Format Error Computation Data Structure Logic Array Arithmetic Terminology

Accession #: 1384 AD #: 0

TITLE: IRIS User's Guide: Volume II - Reference Guide: Version 4.0

Author(s): 0

Date: 01/01/87 Pages:110 Report #: 007-1101-040

Corp. Author: Silicon Graphics Inc., 2011 Stierlin Rd., Mountain View, CA 94039-7311

Index Terms: Rectangle Arc Transformation Projection World Polygon Curve Window Buffer Translation Rotation Image

Accession #: 1385 AD #: 0

TITLE: IRIS Programming Tutorial - Version 1.0

Author(s): 0

Date: 01/01/86 Pages:139 Report #: 007-1103-010

Corp. Author: Silicon Graphics Inc., 2011 Stierlin Rd., Mountain View, CA 94043

Index Terms: Polygon Library Arc Map Matrix Graphic Transformation Communication

Accession #: 1386 AD #: 0  
TITLE: Getting Started with dbx for FORTRAN

Author(s): Smith, Amy B.W.; Szente, C.  
Date: 01/01/86 Pages:16 Report #: 007-0402-010  
Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA  
94043  
Index Terms: Debug Error File Symbol Memory

Accession #: 1387 AD #: 0  
TITLE: Getting Started with dbx for C

Author(s): Smith, Amy B.W.; Szente, C.  
Date: 01/01/86 Pages:18 Report #: 007-0401-010  
Corp. Author: Silicon Graphics, Inc., 2011 Stierlin Rd., Mountain View, CA  
94043  
Index Terms: Error Program Directory Code Command Function Fault

Accession #: 1388 AD #: 0  
TITLE: ELXSI: The System Foundation Guide

Author(s): Lowe, S.  
Date: 10/01/87 Pages:255 Report #: EPN: 08856  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131  
Index Terms: Message Architecture Application Concept Central Processing  
Unit (CPU) Design Foundation Configuration Error Management

Accession #: 1389 AD #: 0  
TITLE: ELXSI C User's Guide: Version 1.00

Author(s): 0  
Date: 11/01/84 Pages:55 Report #: 9741  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131  
Index Terms: Compiler Language Default Allocation Conversion Logic

Accession #: 1390 AD #: 0  
TITLE: ELXSI FORTRAN Reference Manual

Author(s): 0  
Date: 04/01/86 Pages:230 Report #: 9701  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131  
Index Terms: Element Development Compiler Logic Arithmetic Sequence Control  
Input Conjunction Equivalence

Accession #: 1391 AD #: 0  
TITLE: Programmer's Reference Manual, Volume I

Author(s): 0  
Date: 03/01/83 Pages:60 Report #: 9540  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131  
Index Terms: Philosophy Tool Development File Concept Format Equation  
Allocation Function Architecture Transformation Error

Accession #: 1392 AD #: 0  
TITLE: Programmer's Reference Manual, Volume II

Author(s): 0  
Date: 09/01/83 Pages:535 Report #: 9541  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Error Command List Element Parameter Conversion Implementation  
File

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Accession #: 1393 AD #: 0  
TITLE: EDMS - Equel/C User's Guide: Version I

Author(s): 0  
Date: 06/01/85 Pages:50 Report #: 9582  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Destroy Define Database Language Application Conversion  
Default Command Manipulation Development

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Accession #: 1394 AD #: 0  
TITLE: ELXSI Pascal User's Guide

Author(s): 0  
Date: 09/01/84 Pages:65 Report #: 9711  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Programmer Data Structure Compiler Hexidecimal Language Input  
Output Procedure Error File Directive Allocation

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Accession #: 1395 AD #: 0  
TITLE: EMACS User's Guide

Author(s): 0  
Date: 10/01/83 Pages:60 Report #: 9520  
Corp. Author: ELXSI, 2334 Lundy Place, San Jose, CA 95131

Index Terms: Window Buffer Command Capability Logic Default Function  
Simulation Manipulation

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Accession #: 1396 AD #: 0  
TITLE: Allocated Functional Requirments

Author(s): Hall, R.; Cosby, M.  
Date: 03/31/88 Pages:211 Report #: DESD-TR-CDRL-B004F  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102

Index Terms: Analysis Deployment Architecture Integration Assimilation  
Management Configuration Design Baseline

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Accession #: 1397 AD #: 0  
TITLE: Candidate BM/C3 Substem

Author(s): Hall, R.; Cosby, M.  
Date: 03/31/88 Pages:33 Report #: DESD-TR-CDRL-B010F  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102

Index Terms: 0

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Accession #: 1398 AD #: 0  
TITLE: BM/C3 Architecture Element Functional Description

Author(s): Hall, R.; Cosby, M.  
Date: 03/31/88 Pages:293 Report #: DES-TR-CDRL-B007F  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102

Index Terms: Control Data BM/C3 BM/C2 Architecture Sensor Weapon Allocation  
Concept Deployment Integration Mission Configuration

Accession #: 1399 AD #: 0  
TITLE: Tool Experiences And Lessons Learned: Volume II

Author(s): Walent, J.; Neville, T.; Cosby, M.  
Date: 03/31/88 Pages:433 Report #: DESD-TR-CDRL-B016F  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102

Index Terms: Tool Analysis Model Deployment Baseline Support Management  
Methodology Design Configuration

Accession #: 1400 AD #: 0  
TITLE: Measures Of Effectiveness/Measures Of Performance

Author(s): VanTassell, W.; Cosby, M.  
Date: 03/31/88 Pages:138 Report #: DESD-TR-CDRL-B005F  
Corp. Author: SAIC, 1700 Goodridge Dr., McLean, VA 22102

Index Terms: SDS (Strategic Defense System) Architecture Integration  
Analysis Mission Asslimation Methnology Evaluation Deployment

Accession #: 1401 AD #: 0  
TITLE: Tool and Model Requirments: Volume I

Author(s): Walent, J.; Neville, T.; Cosby, M.  
Date: 03/31/88 Pages:210 Report #: DESD-TR-CDRL-B016F  
Corp. Author: SAIC, 1700 Goodridge Dr., McLean, VA 22102

Index Terms: Architecture Methodology Assimilation Configuration Structure  
Evaluation NTB (National Test Bed) Logic

Accession #: 1402 AD #: 0  
TITLE: BM/C3 Architecture Element Functional Description

Author(s): Hall, R.; Cosby, M.  
Date: 03/31/88 Pages:293 Report #: DESD-TR-CDRL-B007F  
Corp. Author: SAIC, 1710 Goodridge Drive, McLean, VA 22102

Index Terms: BM/C3 Allocation Concept Weapon Sensor Communication Data  
Architecture

Accession #: 1403 AD #: 0  
TITLE: Communications Analysis Results

Author(s): Cosby, M.R.; Cooke, D.  
Date: 06/29/88 Pages:135 Report #: DESD-TR-CDRL-B017F  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102

Index Terms: Communication Architecture Transmit Logic Parameter Simulation  
Configuration Allocation Degradation

Accession #: 1404  
TITLE: Security Analysis

AD #: 0

Author(s): Hall, R.; Cosby, M.  
Date: 03/31/88 Pages:33 Report #: DESD-TR-CDRL-B023F  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102

Index Terms: Baseline Concept SDIO Deployment Mission Analysis  
Configuration

Accession #: 1405  
TITLE: SDI System Requirements And Rationale

AD #: 0

Author(s): Hall, R.; Cosby, M.  
Date: 03/31/88 Pages:293 Report #: DESD-TR-CDRL-B003F  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102

Index Terms: Integration Methodology Threat Analysis Assimilation Sensor  
Weapon Mission Target Countermeasure

Accession #: 1406  
TITLE: BM/C2 Analysis Results

AD #: 0

Author(s): Walent, J.; Cosby, M.  
Date: 03/31/88 Pages:368 Report #: DESD-TR-CDRL-B018F  
Corp. Author: SAIC, 1710 Goodridge Dr., McLean, VA 22102

Index Terms: Midcourse Kill Assessment Mission Architecture Defense Battle  
Weapon Target Transitor Space Catastrophic

Accession #: 1407  
TITLE: What price space-based interceptors?

AD #: 0

Author(s): Spergel D.N.; Field, G.B.  
Date: 06/01/88 Pages:003 Report #: 0  
Corp. Author: MacMillian Magazines Ltd., Four Little Essex St., London  
WC2R3LF

Index Terms: Deployment ICBM ERIS FBB Launch Countermeasure Weapon Kinetic  
Kill Vehicle Density Survivability Soviet Union Nuclear Attack

Accession #: 1409  
TITLE: Value of Energy Storage in Pulsed Space Power Systems

AD #: ADA191311

Author(s): Olszewski, M.; Morris, D.G.  
Date: 01/01/88 Pages:70 Report #: ORNL/TM-10530  
Corp. Author: Oak Ridge Natl. Lab., Oakridge, TN 37831

Index Terms: Antimissile Defense Space Radiation Conversion Power Heat  
Cycle Electricity Flywheel

Accession #: 1411  
TITLE: High Response Reaction Control Systems For Small Maneuvering  
Missiles

AD #: 0

Author(s): 0  
Date: 06/01/84 Pages:40 Report #: 0  
Corp. Author: Aerojet Techsystems Co., P.O. Box 13222, Sacramento, CA 95813

Index Terms: SDI Control Missile Midcourse Air Force Army Defense DEW USSR  
ICBM Thrust Technology Kill Pressurization Propellant Tank

Accession #: 1412 AD #: 0  
TITLE: Space and Security News: Reagan In Moscow

Author(s): 0  
Date: 06/01/88 Pages:40 Report #: 0  
Corp. Author: Inst. For Space and Security Studies, 7833 C St., Chesapeake  
Beach, MD 20732  
Index Terms: Superiority Peace Space Policy Empire Summit Nuclear  
Disarmament SDI Grenada Turkey Europe ABM Treaty Attack AF

Accession #: 1413 AD #: 0  
TITLE: Space Station Erectable Truss Joint Evaluation

Author(s): Peebles, J.H.; Kempster, K.B.  
Date: 04/01/88 Pages:008 Report #: MDC-H2660  
Corp. Author: McDonnell Douglas, Huntington Beach, CA

Index Terms: Evaluation Truss Design Compression Space NASA Node Tension  
Data Base Cluster Axial Application

Accession #: 1414 AD #: 0  
TITLE: Understanding Protocols for Byzantine Clock Synchronization

Author(s): Schneider, F.B.  
Date: 08/01/87 Pages:36 Report #: 87-859  
Corp. Author: Dept. of Computer Science, Cornell University, Ithaca, New  
York 14853-7501  
Index Terms: Fault Tolerance Clock Communication Algorithm Implementation  
Calculation Error Convergence Processor

Accession #: 1415 AD #: 0  
TITLE: The State Machine Approach: A Tutorial

Author(s): Schneider, F.B.  
Date: 12/01/86 Pages:30 Report #: 86-800  
Corp. Author: Dept. of Computer Science, Cornell University, Ithaca, New  
York 14853-7501  
Index Terms: Reconfiguration Computer Automation Atomic Terminal  
Triple-modular redundancy (TMR) Implementation

Accession #: 1416 AD #: 0  
TITLE: Final Report On The Application Study Of The Magnetic Control  
System MCS-10 For The MSS Project  
Author(s): 0  
Date: 04/18/88 Pages:60 Report #: 93502  
Corp. Author: ITHACO, Inc., 735 W. Clinton St., P.O. Box 6437, Ithaca, N.Y.  
14851-6437  
Index Terms: Control Electronic Algorithm Magnetometer Analysis Simulation  
Aerodynamic Equation Satellite Filter Space Gravity Allocation

Accession #: 1417 AD #: 0  
TITLE: Computer Program for Calculation of Complex Chemical Equilibrium  
Compositions and Applications Supplement I - Transport Properties  
Author(s): McBride, B.J.; Zelenznik, F.J.; Gordon, S.  
Date: 10/01/84 Pages:26 Report #: N85-16663  
Corp. Author: NASA, Lewis Research Center, Cleveland, Ohio 44135

Index Terms: Transportation Calculation Computer Viscosity NASA Chemical  
Thermodynamic Conductivity Equation Molecule Parameter

Accession #: 1418 AD #: 0  
TITLE: SDI Technology Accomplishments: SDIO Special Report

Author(s): 0  
Date: 0 Pages:20 Report #: 0  
Corp. Author: Phillips Publishing, Inc., 7811 Montrose Rd., Potomac, MD  
20854  
Index Terms: KEW Concept Congress Technology Airborne Exoatmospheric  
Reentry Surveillance Radar Integration Development

Accession #: 1419 AD #: 0  
TITLE: Delta 181 Data Retrieval Phase Quicklook Report (Launch + 15 Days)

Author(s): 0  
Date: 02/23/88 Pages:55 Report #: 0  
Corp. Author: The Johns Hopkins University Applied Physics Laboratory  
Index Terms: Management Resource Vehicle Assessment Spacecraft Data  
Telemetry Command Flight Configuration Sensor Battery Mission

Accession #: 1420 AD #: 0  
TITLE: Vibration-to-Electronic Energy Transfer Laser

Author(s): Rich, J.W.; Bergman, R.C.; DeLeon, R.L.; Williams, M.J.  
Date: 01/01/86 Pages:45 Report #: 7261-1  
Corp. Author: Arvin/Caspin Advanced Technology Center, P.O. Box 400,  
Buffalo, NY 14225  
Index Terms: Collision Energy Wavelength Formation Population Inversion  
Oscillation Laser Density Molecule Transition Vibration

Accession #: 1421 AD #: 0  
TITLE: How to do Business with the Strategic Defense Initiative

Author(s): Moss, S.  
Date: 04/01/88 Pages:32 Report #: 0  
Corp. Author: SDIO, Office Of Small and Disadvantaged Business Utilization  
Index Terms: SDI Procurement Technology Investigation SATKA ICBM Pentagon  
Research Development BSTS Kinetic Energy Sensor ADS Nuclear

Accession #: 1422 AD #: 0  
TITLE: Interferometric Encoder Techniques - Final Report

Author(s): Tansey, R.J.; Hirs, J.; Widen, K., et al  
Date: 01/08/88 Pages:52 Report #: DOE/SF/16499--T3  
Corp. Author: Rockwell Inter'ntl Corp., Rocketdyne Div., 6633 Canoga Ave.,  
Canoga, CA 91303  
Index Terms: Analysis Encoder Beam Control Angular Development Rotary SDI  
Heterodyne Submicron Detection Test Wave Frequency

Accession #: 1423 AD #: 0  
TITLE: Automated Data Processor and Network Architecture Design Tool  
Enhancement Analysis  
Author(s): Hooper, J.W.; Shiva, S.G.; Asdjodi, M.; Campbell, J.M.  
Date: 06/01/88 Pages:125 Report #: STL-31958  
Corp. Author: Univ. of Alabama, Computer Science Department, Huntsville, Al  
35899  
Index Terms: Integration Language Software Methodology Evaluation  
Feasibility Analysis Simulation Communication

Accession #: 1424 AD #: 0  
TITLE: Comparative Analysis of Geographic Information Systems, Phase II Report  
Author(s): Stults, A.H.; Mullen, M.W.  
Date: 08/09/85 Pages:81 Report #: EER-B02  
Corp. Author: Eng. & Economic Research Inc., 3322 S. Memorial Pkwy.,  
Huntsville, AL 35801-5335  
Index Terms: BMD Analysis Application Management Geology Development  
Acquisition Database TVA Algorithm Space Simulation

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Accession #: 1429 AD #: 0  
TITLE: Management of the Strategic Defense Initiative  
  
Author(s): 0  
Date: 04/24/84 Pages:004 Report #: 0  
Corp. Author: Department of Defense, Washington, D.C.  
  
Index Terms: SDIO DoD Technology Ally Ballistic Missile Policy Security  
Destruction Deployment Analysis Communication Congress

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Accession #: 1430 AD #: 0  
TITLE: DoD Directive: Strategic Defense Initiative Organization  
  
Author(s): Taft, W.H. IV  
Date: 02/21/86 Pages:008 Report #: 5141.5  
Corp. Author: Department of Defense, Washington, D.C.  
  
Index Terms: Security SDIO Logistic Acquisition Threat Feasibility Research  
Analysis DARPA Military ABM Treaty Communication

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Accession #: 1431 AD #: 0  
TITLE: DoD Directive: Strategic Defense Initiative Organization  
  
Author(s): Taft, W.H. IV  
Date: 06/04/87 Pages:008 Report #: 5141.5  
Corp. Author: Department of Defense, Washington, D.C.  
  
Index Terms: Command Ballistic Missile Deployment Military C3I Policy  
Analysis Atomic Energy Development Technology

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Accession #: 1432 AD #: 0  
TITLE: SDS Electro - Optical Subsystem for the TMPS Meeting  
  
Author(s): 0  
Date: 02/06/85 Pages:150 Report #: 0  
Corp. Author: Ball Aerospace Systems Division  
  
Index Terms: Intercept Baseline Optical Subsystem Design Phenomenology  
Target Acquisition Light Launch Earth Storage Command Mission

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Accession #: 1434 AD #: 0  
TITLE: A Submillimeter Wavelength Space-Based Imaging Radar  
  
Author(s): Manheimer, W.M.  
Date: 05/31/88 Pages:27 Report #: NRL 9111  
Corp. Author: Office of Naval Research, Washington, D.C. 26375  
  
Index Terms: Radar Image Wavelength Decoy Cavity Cyclotron Configuration  
Rotation Development Research Technology

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Accession #: 1435 AD #: 0  
TITLE: Constitutionality Of Warrantless On - Site Arms Control Inspections  
In The United States  
Author(s): Tanzman, E.A.  
Date: 01/01/88 Pages:68 Report #: 0  
Corp. Author: 0

Index Terms: Chemical Weapon Inspection Framework Analysis Arms Control  
Soviet Union Technology Missile Treaty Military Reduction

Accession #: 1436 AD #: 0  
TITLE: The Strategic Defense Initiative: Myth And Reality

Author(s): Holmes, K.R.  
Date: 06/26/88 Pages:005 Report #: 0  
Corp. Author: The Heritage Foundation, 214 Mass. Ave. N.E., Washington,  
D.C. 20002

Index Terms: SDI Myth Policy Feasibility OTA Nuclear Warhead Moscow  
Countermeasure Threat Ballistic Missile USSR Deployment

Accession #: 1437 AD #: 0  
TITLE: Report To Congress 1988 - Questions and Answers

Author(s): 0  
Date: 0 Pages:005 Report #: 0  
Corp. Author: 0

Index Terms: SDIO Congress Technology Research ABM Treaty Soviet Union  
Missile Military DAB Allocation Development

Accession #: 1438 AD #: 0  
TITLE: Report of the Defense Science Board Task Force Subgroup on Strategic  
Air Defense (SDI Milestone Panel)  
Author(s): Everett, R.R.  
Date: 05/01/88 Pages:11 Report #: 88-1962  
Corp. Author: Office of the Under Sec. of Def. for Acquisition, Wash., D.C.  
20301-3140

Index Terms: DSB Weapon Technology Deployment Detection Assessment  
Ballistic Missile Treaty Attack Withdrawal Surveillance

Accession #: 1439 AD #: 0  
TITLE: SDIO Response to the US Congress OTA Report

Author(s): 0  
Date: 06/07/88 Pages:003 Report #: 0  
Corp. Author: 0

Index Terms: Battle Management Catastrophy Technology Algorithm Deployment  
Missile Test Congress

Accession #: 1440 AD #: 0  
TITLE: SDI Gains Milestone I Approval

Author(s): 0  
Date: 09/18/87 Pages:10 Report #: 483-87  
Corp. Author: DoD, Office of Asst. Sec. of Def. (Public Affairs),  
Washington, D.C. 20301

Index Terms: Simulation Acquisition Validation SDI ABM Treaty Analysis  
Technology Space Surveillance BM/C3 Deployment Decoy

Accession #: 1441 AD #: 0  
TITLE: SDIO Conducts Delta 181 Space Experiment

Author(s): 0  
Date: 02/09/88 Pages:13 Report #: 0  
Corp. Author: DoD, Office of Asst. Sec. of Def. (Public Affairs),  
Washington, D.C. 20301  
Index Terms: Deployment Ultraviolet Atmosphere NASA DoD Radar Sensor  
Mission Data Laser Transmission SDI Development Launch

Accession #: 1442 AD #: 0  
TITLE: SDIO FY 1988 Budget Cut Impact

Author(s): 0  
Date: 02/18/88 Pages:008 Report #: 0  
Corp. Author: 0

Index Terms: Reduction SATKA DEW KEW Laser Target Surveillance Sensor  
Vehicle Mirror SDI Congress

Accession #: 1443 AD #: 0  
TITLE: SDIO FY 88 Budget Detail

Author(s): 0  
Date: 02/29/88 Pages:002 Report #: 0  
Corp. Author: 0

Index Terms: Survivability Space BM/C3 Technology NTB SATKA Laser Shuttle  
KEW DEW SLKT

Accession #: 1444 AD #: 0  
TITLE: Response To Query -- SETA/Environmental Integration Contacts

Author(s): 0  
Date: 03/30/88 Pages:003 Report #: 0  
Corp. Author: 0

Index Terms: Management Control Theater Defense Architecture Communication  
Technology NTB Integration Analysis SETA

Accession #: 1445 AD #: 0  
TITLE: Sunday Washington Post Story On SDI

Author(s): 0  
Date: 03/28/88 Pages:001 Report #: 0  
Corp. Author: 0

Index Terms: Deployment Technology Missile SDI Deterrence DAB Target  
Installation Congress

Accession #: 1446 AD #: 0  
TITLE: It's Time For Truth About SDI

Author(s): Ambassador Rowny, E.L.  
Date: 0 Pages:008 Report #: 0  
Corp. Author: United States Department Of State, Washington, D.C. 20520

Index Terms: Moscow INF Arms U.S.S.R. SDI Security Decoy Warhead Ballistic  
Missile Technology Reduction Deployment Survivability

Accession #: 1447 AD #: 0  
TITLE: Response To Query: SE&I Contract Award

Author(s): 0  
Date: 05/12/88 Pages:003 Report #: 0  
Corp. Author: 0

Index Terms: SDIO NTB ALS FARs Balance Transmission Technology Weapon  
Assessment Architecture Aerospace Air Force DNA ASDC ABM Treaty

Accession #: 1448 AD #: 0  
TITLE: Statement On The Strategic Defense Initiative

Author(s): Judd, O'Dean Dr.  
Date: 07/14/88 Pages:005 Report #: 0  
Corp. Author: SDIO, The Pentagon, Washington, D.C. 20301

Index Terms: OTA SDI BM/C3 Countermeasure Ballistic Missile Soviet Union  
Deployment Technology Research

Accession #: 1449 AD #: 0  
TITLE: Current SDI Research and Development Policy

Author(s): Duke, P.  
Date: 04/07/88 Pages:42 Report #: 0  
Corp. Author: WORLDNET, USIA, Television and Film Service, Washington, D.C.

Index Terms: SDI Tokyo Tel Aviv Policy Congress Ballistic Missile  
Technology Soviet Union Security Debate Deployment

Accession #: 1450 AD #: 0  
TITLE: Statement On The Strategic Defense Initiative

Author(s): Lt Gen. Abrahamson, J.A.  
Date: 03/16/88 Pages:15 Report #: 0  
Corp. Author: Director, SDIO, The Pentagon, Washington, D.C.

Index Terms: Ballistic Missile SDI Technology Deployment Surveillance  
Launch Detection BM/C3 Acquisition SBI Development

Accession #: 1451 AD #: 0  
TITLE: Statement On The Strategic Defense Initiative

Author(s): Lt Gen. Abrahamson, J.A.  
Date: 03/29/88 Pages:15 Report #: 0  
Corp. Author: Director, SDIO, The Pentagon, Washington, D.C.

Index Terms: GAO Research Development SDIO Mission Technology Feasibility  
NASA DOE

Accession #: 1452 AD #: 0  
TITLE: Statement On The Strategic Defense Initiative

Author(s): Lt Gen. Abrahamson, J.A.  
Date: 03/31/88 Pages:20 Report #: 0  
Corp. Author: Director, SDIO, The Pentagon, Washington, D.C.

Index Terms: Deployment Defense Anti-ballistic Missile Technology SDIO  
Surveillance Discrimination Midcourse ERIS BM/C3 Target



Accession #: 1453 AD #: 0  
TITLE: Statement On The Strategic Defense Initiative

Author(s): Lt Gen. Abrahamson, J.A.  
Date: 04/18/88 Pages:18 Report #: 0  
Corp. Author: Director, SDIO, The Pentagon, Washington, D.C.

Index Terms: ABM Treaty SDI Analysis Development Validation Threat SBI BSTS  
BM/C3 Target Vehicle Deployment Balance

Accession #: 1454 AD #: 0  
TITLE: Statement On The Strategic Defense Initiative

Author(s): Lt Gen. Abrahamson, J.A.  
Date: 04/26/88 Pages:16 Report #: 0  
Corp. Author: Director, SDIO, The Pentagon, Washington, D.C.

Index Terms: Ballistic Missile Acquisition Analysis Simulation BM/C3 Air  
Force Balance Feasibility SASC Deployment Technology Policy

Accession #: 1455 AD #: 0  
TITLE: Statement By William H. Carroll

Author(s): Carroll, W.H.  
Date: 04/19/88 Pages:25 Report #: 0  
Corp. Author: General Council, SDIO, The Pentagon, Washington, D.C.

Index Terms: Research Logistic Military Security GSA HASC Analysis SDIO  
BM/C3 Feasibility Simulation

Accession #: 1456 AD #: 0  
TITLE: That SDI Story

Author(s): Lt Gen. Abrahamson, J.A.; Gibbons, J.H.  
Date: 05/05/88 Pages:001 Report #: 0  
Corp. Author: The Washington Post

Index Terms: OTA SDIO Failure Feasibility Catastrpohic Ballistic Missile  
Technology

Accession #: 1457 AD #: 0  
TITLE: SDI: The First Five Years

Author(s): 0  
Date: 03/13/88 Pages:38 Report #: 0  
Corp. Author: The Institute for Foriegn Policy Analysis, Inc.

Index Terms: United Kingdom Alliance Policy SDI Communication Technology  
Target Integration Algorithm BM/C3 Weapon Architecture

Accession #: 1458 AD #: 0  
TITLE: Strategic Defense Initiative: Accuracy of Statements Concerning  
DOE's X-Ray Laser Research Program

Author(s): Conahan, F.C.  
Date: 06/01/88 Pages:15 Report #: GAO/NASIAD-88-181BR  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20584

Index Terms: Communication X-Ray Ballistic Missile Defense Laser Soviet  
Union Technology Congress Feasibility

Accession #: 1459 AD #: 0  
TITLE: A Mathematical Theory Of Asymptotic Computation  
  
Author(s): Elefante, D.M.  
Date: 12/01/87 Pages:80 Report #: 0  
Corp. Author: Odyssey Research Assoc., 301A Harris B. Dates Dr., Ithaca, NY  
14850-1313  
Index Terms: Formulation Theory Mathematics Computation Sequence Variable  
Termination Node Arrow Loop Integer

Accession #: 1460 AD #: 0  
TITLE: Contract Data Requirements List (CLIN 4) for the National Test Bed  
Integration Contract  
Author(s): 0  
Date: 05/20/88 Pages:130 Report #: 0  
Corp. Author: SDIO, DoD, Washington, D.C.  
  
Index Terms: Integration Installation Analysis Baseline Allocation  
Simulation Target Transmission Configuration Communication

Accession #: 1462 AD #: 0  
TITLE: Theater Missile Defense Survivability Analysis - Program Plan  
  
Author(s): 0  
Date: 02/15/88 Pages:33 Report #: TMDSA-SR-88-003  
Corp. Author: Booz-Allen & Hamilton Inc., 4900 Corporate Dr., Suite E,  
Huntsville, AL 35805  
Index Terms: Survivability Resolution Allocation Development Theater  
Missile Defense Database Surrogate Research Technology

Accession #: 1463 AD #: 0  
TITLE: Advanced Structural Materials Technology Development Program --  
Twenty Third Monthly Progress Report For March 23, 1988 - April 22,  
Author(s): 0  
Date: 05/03/88 Pages:85 Report #: LJ-88-51-TR  
Corp. Author: SPARTA, Inc., 1055 Wall Street, Suite 200, P.O. Box 1354, La  
Jolla, CA 92037  
Index Terms: Vehicle Accelerator Rail Fabrication Space Circuit Plasma  
Metallography Diffusion Friction Erosion Radiometry Insulation

Accession #: 1464 AD #: 0  
TITLE: High Temperature Lightweight Composites For Space Nuclear Power  
  
Author(s): Lake, M.L.; Dillon, R.O.; Hickok, J.K., et al  
Date: 0 Pages:90 Report #: 0  
Corp. Author: Applied Sciences Inc., 800 Livermore Street, Yellow Springs,  
OH 45387  
Index Terms: Carbon Temperature Catalyst Probe Fiber Energy Mobility Design  
Graphite Ratio Pyrolytic

Accession #: 1465 AD #: 0  
TITLE: Non-Parasitic Design Concepts for Intrinsic Hardness of Advanced  
Composite Missile Cases  
Author(s): Eisler, R.D.; Chatterjee, A.K.  
Date: 08/10/88 Pages:120 Report #: MCR-COM-R-88-197  
Corp. Author: Mission Research Corporation, 3505 Cadillac Ave., Bldg. H,  
Costa Mesa, CA 92626  
Index Terms: Hardness Accumulation Fiber Tolerance Missile Graphite Angle  
Stress Velocity Configuration Development Analysis Epoxy

Accession #: 1466 AD #: 0  
TITLE: Allocating and Launching MaRV Interceptors Based on Miss Distance Predictions  
Author(s): Corynen, G.C.  
Date: 06/01/88 Pages:135 Report #: UCRL - 53875  
Corp. Author: Lawrence Livermore National Laboratory, Livermore, CA 94550  
Index Terms: Policy Threat Vulnerability Equation Launch Allocation Defense Battle Management Acceleration Motion Interceptor

Accession #: 1467 AD #: 0  
TITLE: Selective Bibliography Of National Survival Literature  
Author(s): Corbett, K.; Ridgeway, D.  
Date: 08/01/88 Pages:13 Report #: 0  
Corp. Author: Booz-Allen & Hamilton

Index Terms: Survival Technology Feasibility Countermeasure Test Bed Interceptor Policy SDI

Accession #: 1468 AD #: 0  
TITLE: Thermoelectromagnetic Pumps for Space Nuclear Power Systems  
Author(s): Campana, R.J.; Diarlariello, T.  
Date: 01/01/88 Pages:008 Report #: 0  
Corp. Author: Amer. Inst. of Aeronautics and Astronautics, 555 W. 57th St., NY, N.Y. 10019  
Index Terms: Voltage SDI Heat Static Survival Configuration Methodology Calculation Feasibility Hydraulic Reduction Semiconductor

Accession #: 1469 AD #: 0  
TITLE: Star Wars: the impossible dream  
Author(s): Pike, J.  
Date: 09/01/88 Pages:005 Report #: 0  
Corp. Author: New Scientist, 200 Mechan Ave., Elmont, N.Y. 11003  
Index Terms: ABM Treaty Warhead Decoy SDID Technology Space Radar Sensor Laser Kilogram Aircraft Target Missile U.S.S.R. Network Survei

Accession #: 1470 AD #: 0  
TITLE: Science and the American Citizen  
Author(s): 0  
Date: 09/01/88 Pages:002 Report #: 0  
Corp. Author: Scientific American, 415 Madison Ave., New York, N.Y. 10017  
Index Terms: Military Nuclear Missile Pentagon JCS Technology SDI Radar Code Enemy Error Soviet Union Deployment Emission

Accession #: 1471 AD #: 0  
TITLE: Action Items: Appendix To ERIS Critical Design Review  
Author(s): 0  
Date: 09/20/88 Pages:012 Report #: LMSC-L077383A  
Corp. Author: Lockheed Missiles & Space Co., Inc., Sunnyvale, CA 94088  
Index Terms: Tank Propellant Integration Nitrogen KEW ERIS Vibration Mission Development

Accession #: 1472 AD #: 0  
TITLE: Interceptor-To-Target Strategies For Strategic Defense I: Adapative  
Strategies Based Upon System And Threat Characteristics  
Author(s): Smith, M.E.; Patterson, T.S.  
Date: 07/01/88 Pages:032 Report #: IDA P-2058  
Corp. Author: Institute for Defense Analyses, 1801 N. Beauregard St.,  
Alexandria, VA 22311  
Index Terms: Interceptor Allocation Simulation Battle Management Algorithm  
Analysis Architecture Target Linear Development Discrimination

Accession #: 1473 AD #: 0  
TITLE: SDIO Modil Industrial Briefing  
Author(s): 0  
Date: 03/09/88 Pages:65 Report #: 0  
Corp. Author: Optical Sciences Center, University of Arizona  
Index Terms: Workshop Modil Optic Technology Briefing System Metrology  
Program

Accession #: 1474 AD #: 0  
TITLE: Second SDIO Optics Modil Industrial Briefing  
Author(s): 0  
Date: 06/15/88 Pages:55 Report #: 0  
Corp. Author: Optical Science Center  
Index Terms: Optic Program MODIL Industrial Briefing Technology Science  
Laboratory

Accession #: 1475 AD #: 0  
TITLE: Experimental Investigation of Emittance Growth in Particle Beams  
Using Directly Heated Lanthanum Hexaboride Cathodes  
Author(s): McHarg, M., Capt.; Young, D., Lt.  
Date: 06/01/88 Pages:34 Report #: AFWL-TR-87-128  
Corp. Author: AFWL, Kirtland Air Force Base, New Mexico, 87117-6008  
Index Terms: Nonlinear Electron Cathode Hexaboride Theroy Infrared Beam  
Kinetic Energy Optic Frequency Plasma

Accession #: 1476 AD #: 0  
TITLE: Readout Electronics Hardness Improvment Program Plan  
Author(s): Snively, F.; Beardwood, B.  
Date: 07/26/88 Pages:58 Report #: C88-806/601  
Corp. Author: Rockwell International, P.O. Box 3105, 3370 Miraloma Ave.,  
Anaheim, CA 92803  
Index Terms: Neutron Ionization Array Weapon Development Survivability  
Technology Integration Semiconductor Evolution Detector

Accession #:U00173 AD #: -0-  
TITLE: Document Change Status Of Exoatmospheric Reentry-Vehicle Interceptor  
Subsystem  
Author(s): -0-  
Date: 11/14/86 Pages:185 Report #: -0-  
Corp. Author: -0-

Index Terms: ERIS Interfacing Communication Evaluation Assessment Dataset

Accession #:U00372 AD #: -0-  
TITLE: Solar Power Satellite System Definition Study Phase III - Final  
Report - Volume V - Space Transportation Analysis  
Author(s): Woodcock, G.R.  
Date: 06/01/80 Pages:153 Report #: NASA-CR-160746  
Corp. Author: The Boeing Aerospace Co., P.O. Box 3999, Seattle, WA 98124

Index Terms: Solar Power Satellite System Laser Analysis Trajectory  
Shuttle-Derived Transportation Orbit Launch

Accession #:U00436 AD #: -0-  
TITLE: An Annotated Bibliography For Integration Of Performance &  
Reliability With Emphasis On Multiprocessor Systems  
Author(s): Chellappa, M.; Somalwar, K.K.  
Date: 03/01/87 Pages:165 Report #: -0-  
Corp. Author: Dept. of Computer Science, University Of Texas at Austin

Index Terms: Semiconductor Fault Tolerant Logic Application Algorithm  
Database Theory Binary Detection

Accession #:U00437 AD #: -0-  
TITLE: Message Formatting for the Sensor Based Concept (SBC) Networks  
Author(s): Lazinger, D.J.; Feldman, N.E.; Stone, W.H.  
Date: -0- Pages:007 Report #: -0-  
Corp. Author: Aerospace Corporation

Index Terms: Satellite Architecture Network Application Node

Accession #:U00451 AD #: -0-  
TITLE: Concurrent Real Time Simulation Abstract  
Author(s): Floyd, T.S.  
Date: 06/22/87 Pages:013 Report #: 87-228  
Corp. Author: Georgia Institute of Technology, Atlanta, GA 30332

Index Terms: Sensor Technology Architecture Simulation Development  
Temperature Linear Endoatmospheric Algorithm Communication

Accession #:U00452 AD #: -0-  
TITLE: An Approach To The Verification Of A Fault Tolerant, Computer-Based,  
Reactor Safety System -- A Case Study Utilizing Automated Reasoning  
Author(s): Chislom, G.H.; Hijaich, J., et al  
Date: 04/01/86 Pages:088 Report #: RP 2686-1  
Corp. Author: Argonne National Laboratory, 9700 S. Cass Ave., Argonne, IL  
60439

Index Terms: Analysis Hardware Automation Application Software Design Logic  
Communication

Accession #:U00453 AD #: -0-  
TITLE: A Fault-Tolerant 2D Warp Architecture (A Cooperative Research Effort  
between CMU and GE)  
Author(s): Kung, H.T.  
Date: 04/03/87 Pages:41 Report #: -0-  
Corp. Author: Dept. of Computer Science, Carnegie Mellon Univ., Pittsburg,  
PA 15312  
Index Terms: Detection Computation Reconfiguration Channel Simulation Array  
Memory Application Algorithm Logic

Accession #:U00546 AD #: -0-  
TITLE: NBS List of Publications: Revised July 1988  
Author(s): -0-  
Date: 01/01/88 Pages:106 Report #: SP 305 - 19  
Corp. Author: U.S. Dept. OF Commerce, National Bureau of Standards  
Index Terms: Management Technology Physics Modulation Rotation Solar  
Stability Analysis Wind Seismic Stress Degradation Simulation

Accession #:U00815 AD #: -0-  
TITLE: SDI Software Technology Program Plan  
Author(s): Linn, C.J.; Bloom, M.I., et al  
Date: 06/01/88 Pages:470 Report #: IDA P-1926  
Corp. Author: IDA, 1801 N. Beauregard St. , Alex, VA 22311  
Index Terms: SDIO BM/C3 R&D Technology Software Security Algorithm  
Prototype Milestone OMB Sensor Integration

Accession #:U00867 AD #: -0-  
TITLE: SDI System Architecture & Key Tradeoff Studies: Final Briefing -  
Affordability/ Management Information Systems  
Author(s): -0-  
Date: 06/06/85 Pages:26 Report #: -0-  
Corp. Author: TRW  
Index Terms: Control Management Performance Cost Growth Risk Analysis Boost  
Allocation

Accession #:U00931 AD #: -0-  
TITLE: Simulation and Reliability Analysis of the Fault Tolerant 2-D Warp  
Architecture  
Author(s): English, D.M.  
Date: 04/02/87 Pages:021 Report #: -0-  
Corp. Author: General Electric Company, Syracuse, NY 13221  
Index Terms: Structure Simulation Architecture Baseline Analysis  
Integration Intelligence Switch Buffer

Accession #:U00940 AD #: -0-  
TITLE: The Multiple Satellite System Program Overview/Status  
Author(s): -0-  
Date: 11/12/86 Pages:30 Report #: -0-  
Corp. Author: -0-  
Index Terms: Network Satellite Design Airborne Voice Communication  
Frequency Antenna Array Crosslink Transmission

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Accession #:U01000 AD #: -0-  
TITLE: SDI BM/C3 System Architecture Studies: Phase II Quarterly Review

Author(s): -0-  
Date: 10/08/86 Pages:200 Report #: -0-  
Corp. Author: Ford Aerospace & Communication Corporation

Index Terms: Space Battle Warning SDI Mission BSTS SSTs Weapon Flight ERIS  
HEDI Angle Surveillance Propagation

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Accession #:U01009 AD #: -0-  
TITLE: SDIO/Services BM/C3 Technology Project Review

Author(s): -0-  
Date: 04/22/86 Pages:250 Report #: -0-  
Corp. Author: IDA, 1801 N. Beauregard St., Alex., VA 22311

Index Terms: Software Evolution Mission Development Integration Validation  
Node Aircraft Weapon Application Mathematics

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Accession #:U01012 AD #: -0-  
TITLE: Multiple Satellite System Program Global Robust and Surveillance  
Communication System

Author(s): -0-  
Date: -0- Pages:50 Report #: -0-  
Corp. Author: Harris Government Aerospace System Division

Index Terms: Orbit Earth Satellite Communication Antenna Module Assembly  
Integration Solar Array Dielectric

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Accession #:U01097 AD #: -0-  
TITLE: Multiple Satellite System Program Antenna

Author(s): Brumbaugh, T.  
Date: 11/12/86 Pages:40 Report #: -0-  
Corp. Author: Rockwell International

Index Terms: Design Antenna Array Beam Transition Watt Angle

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Accession #:U01126 AD #: -0-  
TITLE: Interm Technical Report For The Multiple Satellite System Program

Author(s): -0-  
Date: 06/26/86 Pages:046 Report #: -0-  
Corp. Author: QUALCOMM, Inc., 10555 Sorrento Valley Rd., San Diego, CA 92121

Index Terms: Analysis Satellite Global Earth Algorithm Connection  
Architecture Waveform Transmission Simulation

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Accession #:U01131 AD #: -0-  
TITLE: Satellite Integration Data Package For MSSP Working Group III

Author(s): -0-  
Date: 11/14/86 Pages:35 Report #: -0-  
Corp. Author: RCA Astro-Electronics

Index Terms: Launch Tradeoff Altitude Satellite Gravity Cable Air Force  
Radiation Reduction

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Accession #:U01134  
TITLE: MSSP Workgroup III

AD #: -0-

Author(s): -0-  
Date: 11/14/86 Pages:45 Report #: -0-  
Corp. Author: Cincinnati Electronics Corporation

Index Terms: Convolutional Mode Transmission Waveform Network Distance  
Ratio Application Communication Architecture Development

Accession #:U01206 AD #: -0-  
TITLE: LISS Low Cost Use of Space Through Lightweight Satellites and Fleet  
Ballistic Missile-Derived ELVs  
Author(s): Brodsky, M.T.; Grizell, N.  
Date: 02/01/87 Pages:17 Report #: -0-  
Corp. Author: Lockheed Missiles & Space Co. Inc., Sunnyvale, CA 94088-3504

Index Terms: Baseline Booster Configuration Injection Launch Research  
Satellite Spacecraft Ballistic Missile

Accession #:U01223 AD #: -0-  
TITLE: Ultraviolet Surveillance of Boosters and Post-Boost Vehicles

Author(s): Bowyer, S.; Hurwitz, M.  
Date: -0- Pages:003 Report #: A88-42527  
Corp. Author: AIAA, 555 West 57th St., New York, N.Y. 10019

Index Terms: -0-

Accession #:U01243 AD #: -0-  
TITLE: MSSP Burst Radio RF Electronics Design Description

Author(s): -0-  
Date: 11/07/86 Pages:35 Report #: -0-  
Corp. Author: Harris GASD, Melbourne, FL

Index Terms: -0-

Accession #:U01244 AD #: -0-  
TITLE: The First SDI BM/C3 Experiment In Space

Author(s): -0-  
Date: -0- Pages:45 Report #: -0-  
Corp. Author: Cooperating Space System

Index Terms: Demonstration Space BM/C3 Algorithm Assessment Allocation  
Spacecraft Research Development Mission

Accession #:U01250 AD #: -0-  
TITLE: The SDI Advanced Planning Briefing for Industry - Revised Agenda

Author(s): -0-  
Date: 11/30/88 Pages:65 Report #: -0-  
Corp. Author: Nat. Inst. of Standards & Technology, Gaithersburg, MD

Index Terms: SDIO Phase One Architecture Theater Missile Defense NTB SATKA  
Sensor Surveillance Warfare KEW ASDC Air Force



Accession #:U01290 AD #: -O-  
TITLE: Proposed Optical Communication Experiment With NASA Advanced  
Communications Technology Satellite  
Author(s): Chan, V.W.S.  
Date: 05/01/85 Pages:137 Report #: SC-64  
Corp. Author: M.I.T., Lexington, MA

Index Terms: Heterodyne Detection Communication Laser Acquisition Beacon  
NASA Construction Geosynchronous Configuration Telescope

Accession #:U01477 AD #: -O-  
TITLE: Cornus, A Disturbed Operating System: Functional Definition And  
System Concept  
Author(s): Schantz, R.E.; Thomas, R.H.  
Date: 04/01/88 Pages:102 Report #: BBN-5879  
Corp. Author: BBN Laboratories Inc., 10 Moulton Street, Cambridge, MA 02238

Index Terms: Survivability Heterogeneous Computation Communication  
Management Integration Security Authentication Configuration

Accession #:U01478 AD #: -O-  
TITLE: Cronus, A Disturbed Operating System: Phase One  
  
Author(s): Schantz, R.E.; Thomas, R.H., et al  
Date: 04/01/88 Pages:84 Report #: BBN-5885  
Corp. Author: BBN Laboratories Inc., 10 Moulton Street, Cambridge, MA 02238

Index Terms: Control Encodement Software Architecture Design Validation  
Fault Computer Hardware Technology Application

Accession #:U01479 AD #: -O-  
TITLE: Response To The Kite-1 Cooling Subsystem CDR Trouble Reports  
  
Author(s): Pritchard, J.L.  
Date: 09/19/88 Pages:90 Report #: -O-  
Corp. Author: McDonnell Douglas, 5301 Bolsa Ave., Huntington Beach, CA  
92647-2048

Index Terms: Integration Assembly Temperature Coolant Configuration  
Trajectory Analysis Mission Vehicle Frequency

Accession #:U01480 AD #: -O-  
TITLE: Cronus, A Disturbed Operating System: Revised System/Subsystem  
Specification  
Author(s): Schantz, R.W.; Thomas, R.H., et al  
Date: 04/01/88 Pages:250 Report #: BBN-5884  
Corp. Author: BBN Laboratories Inc., 10 Moulton Street, Cambridge, MA 02238

Index Terms: Cluster Network Structure Control Security Communication  
Design Analysis Default Probe Configuration

Accession #:U01481 AD #: -O-  
TITLE: Defense Budget and Program Issues Fiscal Year 1989 Budget  
  
Author(s): -O-  
Date: 03/14/88 Pages:013 Report #: GAO/T-NSRTAD-88-18  
Corp. Author: United States General Accounting Office, Washington, D.C.

Index Terms: DoD Congress Weapon Reduction Navy OSD Helicopter Army Torpedo  
Production Reduction Acquisition Mission Command

Accession #:U01482 AD #: -0-  
TITLE: Data Requirements List: Final Report - Dated 29 March 1988

Author(s): Anderson, J.R.  
Date: 09/29/88 Pages:004 Report #: LMSC/F233918  
Corp. Author: Lockheed Missiles & Space Co., Inc., 1111 Lockheed Way,  
Sunnyvale, CA 94086  
Index Terms: Technology Analysis Flight Software Sensor Development  
Architecture

Accession #:U01483 AD #: -0-  
TITLE: Information Security - Actions Taken to Improve Lockheed's Special  
Access Document Accountability  
Author(s): Ferber, M.M.  
Date: 11/01/87 Pages:013 Report #: GAO/NSIAD-88-2BR  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20548  
Index Terms: Methodology Control Security Destruction Baseline  
Microcomputer

Accession #:U01484 AD #: -0-  
TITLE: SDI Program: Status of Space Surveillance and Tracking System  
Author(s): -0-  
Date: 11/01/88 Pages:004 Report #: GAO/NSIAD-88-61  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20548  
Index Terms: Ballistic Missile SDIO Sensor Midcourse Surveillance Space  
Integration Architecture Detector Acquisition

Accession #:U01485 AD #: -0-  
TITLE: DoD Acquisition Programs: Status of Selected Systems  
Author(s): -0-  
Date: 06/01/88 Pages:165 Report #: GAO/NSIAD-88-160  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20548  
Index Terms: DoD Acquisition Development Warhead Launch Airborne Seawolf  
Warfare ICBM Attack Missile Sensor Aircraft

Accession #:U01486 AD #: -0-  
TITLE: Procurement - Multiyear Contracting and Its Impact on Investment  
Decisions  
Author(s): -0-  
Date: 05/01/88 Pages:047 Report #: GAO/NSIAD-88-125  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20548  
Index Terms: DoD Acquisition Technology Army Navy Air Force Congress Risk  
Production Policy Design Stability

Accession #:U01487 AD #: -0-  
TITLE: Military Space Operations: Shuttle and Satellite Computer Systems Do  
Not Meet Performance Objectives  
Author(s): -0-  
Date: 08/01/88 Pages:044 Report #: GAO/IMTEC-88-7  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20548  
Index Terms: Air Force Satellite Computer Communication Navigation  
Development Congress Analysis Mission NASA Security Policy

Accession #:U01488 AD #: -0-  
TITLE: Procurement: Small Business Suspension and Debarment by the  
Department of Defense  
Author(s): -0-  
Date: 12/01/87 Pages:012 Report #: GAO/NSIAD-88-60BR  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20548  
Index Terms: DoD Suspension Analysis

Accession #:U01489 AD #: -0-  
TITLE: Defense Procurement: Work Measurement Programs at Selected  
Contractor Locations  
Author(s): -0-  
Date: -0- Pages:019 Report #: GAO/NSIAD-88-43BR  
Corp. Author: United States General Accounting Office, Washington, D.C.  
20548  
Index Terms: Aircraft Weapon DoD Production Navy Air Force Implementation  
Methodology Command Allocation Missile Reentry Reduction

Accession #:U01490 AD #: -0-  
TITLE: Handbook Of HE Explosion Effects  
Author(s): Petes, J.  
Date: 04/11/86 Pages:36 Report #: DASIAC TN-86-15  
Corp. Author: Kaman Tempo, Huntington Bldg., 2560 Huntington Ave.,  
Alexandria, VA 22303-1410  
Index Terms: Crater Explosion Calculation Airblast Hydrocode Cylinder Burst  
Sphere

Accession #:U01491 AD #: -0-  
TITLE: Joint Hearing Testimony on SDI  
Author(s): -0-  
Date: 10/06/88 Pages:12 Report #: -0-  
Corp. Author: SDIO, The Pentagon, Washington, D.C.  
Index Terms: Sensor Deployment Technology Acquisition Balance Interceptor  
BM/C3 Mission Congress Research Weapon

Accession #:U01492 AD #: AD-A192341  
TITLE: Strategic Defense Initiative - Strategic Implications  
Author(s): Russell, T.L., LTC  
Date: 03/01/88 Pages:035 Report #: -0-  
Corp. Author: Army War College, Carlisle, PA 17013-5050  
Index Terms: Stability Arms Control SDI United States U.S.S.R. Security  
Deployment Weapon Retaliation ICBM Bomber Submarine Population

Accession #:U01493 AD #: AD-A192404  
TITLE: Who is going to Shoot Down the First ICBM - Man or Machine ?  
Author(s): Piepenbrink, J.O.  
Date: 04/01/88 Pages:023 Report #: ASCS-88-2130  
Corp. Author: Air Command and Staff College, Maxwell AFB, AL  
Index Terms: SDI Weapon ICBM Safety Control Midcourse Trajectory Warhead  
Destruction Air Force Communication

Accession #:U01494  
TITLE: What to do About ASAT?

AD #: AD-A192912

Author(s): Pettit, E.  
Date: 02/29/88 Pages:044 Report #: -0-  
Corp. Author: Army War College, Maxwell AFB, Carlise, PA 17013-5050

Index Terms: Antisatellite Resolution Policy Mission Surveillance  
Communication Ballistic Missile Telemetry Detection

Accession #:U01495  
TITLE: Future SDI Decision Making

AD #: AD-A192794

Author(s): Holman, B.W.  
Date: 03/29/88 Pages:33 Report #: -0-  
Corp. Author: Army War College, Carlisle, PA 17013-5050

Index Terms: Congress Soviet Union Feasibility SDI ABM Treaty Deployment  
Destruction Target DEW SATKA KEW Deterrence

Accession #:U01496  
TITLE: The President and the Stages of Policy Development

AD #: AD-A194794

Author(s): Medve, J.P.  
Date: 05/01/88 Pages:100 Report #: -0-  
Corp. Author: Texas Univ. at Austin

Index Terms: SDI Policy Congress Economy Formula Implementation Hostile  
Vietnam ABM Treaty

Accession #:U01497  
TITLE: Looking Beyond the Strategic Defense Initiative

AD #: AD-A195079

Author(s): Nichols, D.H. LTC  
Date: 03/30/88 Pages:045 Report #: -0-  
Corp. Author: Army War College, Carlisle, PA 17013-5050

Index Terms: Ballistic Missile SDI Deterrence Failure Weapon Deployment  
Soviet Union Submarine Space Ejection Mission C3I Policy

Accession #:U01498  
TITLE: Strategic Defense Initiative Defense - Issues and Implications for the  
Atlantic Alliance

AD #: AD-A195412

Author(s): Davidson, C.G.  
Date: 05/01/88 Pages:099 Report #: -0-  
Corp. Author: HQDA, TAPA, 200 Stovall St., Alexandria, VA 22332

Index Terms: Technology SDI Alliance ABM Treaty Stability Deterrence  
Nuclear Threat Bomber Soviet Union Attack U.S. Evacuation

Accession #:U01499  
TITLE: Strategic Defense Initiative Program: National Test Bed Acquisition  
has not proceeded as planned

AD #: AD-A194474

Author(s): -0-  
Date: 06/01/88 Pages:012 Report #: GAO/NSIAD-88-180FS  
Corp. Author: General Accounting Office

Index Terms: NTB NTF SDI Methodology Ballistic Missile Construction  
Acquisition Air Force

Accession #:U01500 AD #: AD-A194544  
TITLE: SDI: Where Do We Go From Here?

Author(s): Dierker, R.R. Lt. Col. USAF  
Date: 03/30/88 Pages:039 Report #: -0-  
Corp. Author: Army War College, Carlisle, PA 17013

Index Terms: U.S. Soviet Union ABM Treaty Technology Domination  
Mobilization Innovation Artillery Imbalance World War II Army

Accession #:U01502 AD #: -0-  
TITLE: Strategic Defense Initiative Architecture Dataflow Modeling  
Technique - Version 1.5

Author(s): Linn, J.L.; Ardoin, C.D.; Linn, C.J., et al  
Date: 03/08/88 Pages:126 Report #: P-2035  
Corp. Author: Institute For Defense Analyses, 1801 N. Beauregard St.,  
Alex., VA 22311

Index Terms: Computer Architecture Simulation Language BM/C3 technology SDI  
Design Transition

Accession #:U01503 AD #: -0-  
TITLE: Users' Manual and Reference Guide

Author(s): Triplett, J.R.; Sweet, K.; Shkoller, B.  
Date: 09/01/88 Pages:176 Report #: SSS-R-89-9891  
Corp. Author: S-Cubed, 3398 Carmel Mountain Rd., San Diego, CA 92121-1095

Index Terms: Subroute Electron Stress Hydrodynamic Array Angle Viscosity  
Linear Integration Tabulation Atomic Calculation

Accession #:U01504 AD #: -0-  
TITLE: Trice Design, Evaluation, and Feasibility Tests

Author(s): Huey, H.E.; McVey, J.B.; Sahines, T.P., et al  
Date: -0- Pages:003 Report #: N88-24498  
Corp. Author: Rasor Assoc., Inc., 253 Humboldt Court, Sunnyvale, CA 94089

Index Terms: Reactor NASA Innovation Hydraulic Configuration Thermal  
Mission Electrolytic Oxygen Feasibility Baseline Axial

Accession #:U01505 AD #: -0-  
TITLE: Delta 180/Vector Sum: The First Powered Space Intercept

Author(s): Griffin, M.D.; Rendine, M.J. Lt Col USAF  
Date: 01/14/88 Pages:010 Report #: A88-88-0161  
Corp. Author: AIAA, 370 L'Enfant Promenade, S.W., Washington, D.C. 20024

Index Terms: SDIO Launch Window Guidance Navigation NASA McDonnell Douglas  
Shuttle KEW Vehicle Target Application ABM Analysis

Accession #:U01506 AD #: -0-  
TITLE: Gain Transfer: An Algorithm For Decentralized Hierarchical Estimation

Author(s): Gardner, W.T.; Leondes, C.T.  
Date: 06/01/88 Pages:90 Report #: -0-  
Corp. Author: University of California, Los Angeles, CA

Index Terms: Algorithm Error Transfer Research Sensor Microprocessor  
Integration Linear Communication Technology Optimal

Accession #:U01507 AD #: -0-  
TITLE: Comparison of Dynamic Weapon Allocation Strategies

Author(s): Horenstien, A.  
Date: 06/01/88 Pages:85 Report #: -0-  
Corp. Author: University Of California, Los Angeles

Index Terms: Allocation Weapon SDI Simulation Global Engagement Strategy  
Battle Target Communication Algorithm Node

Accession #:U01508 AD #: -0-  
TITLE: On The Optimal Search Theory

Author(s): Hoai Xuau Vu, Leondes, C.T.  
Date: 06/01/88 Pages:120 Report #: -0-  
Corp. Author: University Of California, Los Angeles

Index Terms: Research Battle USN Warfare Target Detection Algorithm  
Frequency Global Density Equation

Accession #:U01509 AD #: -0-  
TITLE: Performance Evaluation Of Parallel Algorithms And Architectures In  
Concurrent Multiprocessor Systems  
Author(s): Ammar, H.H.; Fong, Y.S., et al  
Date: 01/01/88 Pages:018 Report #: TR 88-0970  
Corp. Author: Dept. of Elec. & Computer Eng., Clarkson University, Potsdam,  
New York 13676  
Index Terms: Mapping Algorithm Architecture Analysis SDI Battle Management  
Communication Simulator Hypercube Computation

Accession #:U01510 AD #: -0-  
TITLE: Multiple Booster, Multiple Sensor Tracker Correlation Algorithm

Author(s): -0-  
Date: 05/03/88 Pages:165 Report #: -0-  
Corp. Author: Applied Technology Associates, 400 Gordon Dr., Suite 504,  
Lionville, PA 19353

Index Terms: Trajectory ICBM Development Application Sensor Launch Optical  
Battle Target Kilometer Launch

Accession #:U01511 AD #: -0-  
TITLE: SDI Tracker/Correlator Algorithm Design Document

Author(s): Erbacher, J.A.; Bowman, C.L.; Belkin, B., et al  
Date: 09/10/86 Pages:145 Report #: T/C-001-87  
Corp. Author: Verac, Inc.

Index Terms: Processor Target Map Observation Development Kinematic  
Temperature Equation Cluster

Accession #:U01512 AD #: -0-  
TITLE: SDI Tracker/Correlator Phase I Algorithm Test Report

Author(s): Erbacher, J.A.  
Date: 10/01/87 Pages:180 Report #: R-104-87  
Corp. Author: Ball Systems Engineering Division

Index Terms: Surveillance Geometry Analysis Test Sensor Velocity Deviation  
Meter Resolution

---

Accession #:U01513 AD #: -0-  
TITLE: Refractory Metal Alloys and Composites for Space Power Systems

Author(s): Stephens, J.R.; Titran, R.H.; Petrasek, D.W.  
Date: 04/09/88 Pages:32 Report #: NASA TM 100946  
Corp. Author: NASA, Lewis Research Center, Cleveland, Ohio 44135-3191

Index Terms: Fabrication Metal Composite Space Refraction Stress Ratio  
Scheme Spray Kilowatt DOE Projection

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Accession #:U01514 AD #: -0-  
TITLE: Multimegawatt Space Nuclear Power Program Structural Materials Data  
Sheets: Data Package No. 1

Author(s): -0-  
Date: 08/12/88 Pages:45 Report #: -0-  
Corp. Author: Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831

Index Terms: Strength Data Space Analysis Behavior Alloy Strain Ingot Curve  
Equation

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Accession #:U01515 AD #: -0-  
TITLE: Soviet Military Terminology: Reference Aid - Volume A-M

Author(s): -0-  
Date: 09/01/88 Pages:572 Report #: -0-  
Corp. Author: Foreign Broadcast Information Service, P.O. Box 2604,  
Washington, D.C. 20013

Index Terms: Microcomputer U.S. Soviet Union Army Translation Navy Radar  
Helicopter Artillery Evolution Missile

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Accession #:U01516 AD #: -0-  
TITLE: Soviet Military Terminology: Reference Aid - Volume N-R

Author(s): -0-  
Date: 09/01/88 Pages:579 Report #: -0-  
Corp. Author: Foreign Broadcast Information Service, P.O. Box 2604,  
Washington, D.C. 20013

Index Terms: Communication ROTC Tactic Aircraft Navy Moscow Navigation  
Echelon Assault Terminology Theory Submarine

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Accession #:U01517 AD #: -0-  
TITLE: Soviet Military Terminology: Reference Aid - Volume S-Z

Author(s): -0-  
Date: 09/01/88 Pages:546 Report #: -0-  
Corp. Author: Foreign Broadcast Information Service, P.O. Box 2604,  
Washington, D.C. 20013

Index Terms: Armor Flight Combat Technology Missile Nuclear Weapon Pilot  
Warfare Artillery Evolution Intelligence

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Accession #:U01518 AD #: -0-  
TITLE: Functional Technology Validation Program - Contract Breakdown  
Structure

Author(s): -0-  
Date: 10/14/88 Pages:310 Report #: LMSC-F133903  
Corp. Author: Lockheed Missiles & Space Co., Inc., Sunnyvale, CA 94088-3504

Index Terms: Exoatmospheric Booster Technology Development Vehicle  
Termination Autopilot Kill Analysis Transmission Encoder

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Accession #:U01519 AD #: -0-  
TITLE: Guidelines For Tailoring DoD-STD-2167A For SDS Software Development

Author(s): Knapper, R.J.; Linn, Cathy Jo; Salasin, J.  
Date: 02/01/88 Pages:53 Report #: IDA P-2018  
Corp. Author: Institute for Defense Analyses, 1801 N. Beauregard St.,  
Alexandria, VA 22311  
Index Terms: Development Scale Software Design Analysis Evaluation BM/C3  
Technology Military Acquisition Formulation Integration SDIO

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Accession #:U01520 AD #: -0-  
TITLE: SDI BM/C3 Algorithms Technology Program Plan

Author(s): Frenkel, G.; Paterson, T.S.; Smith, M.E.  
Date: 04/01/88 Pages:95 Report #: IDA P-2068  
Corp. Author: Institute For Defense Analyses, 1801 N. Beauregard St.,  
Alex., VA 22311  
Index Terms: SDI Algorithm BM/C3 ASAT Weapon Target Discrimination  
Attrition Midcourse Threat Formulation Error

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Accession #:U01521 AD #: -0-  
TITLE: Evaluation Of Computer-Aided System Design Tools For SDI BM/C3  
Architecture Development

Author(s): Campbell, K.; Corcoran, N.; Gonzalez, C., et al  
Date: 10/01/87 Pages:170 Report #: IDA P-2062  
Corp. Author: Institute For Defense Analyses, 1801 N. Beauregard St.,  
Alex., VA 22311  
Index Terms: BM/C3 Tool Design Validation Simulation Communication Analysis  
Graphic Transition Elevator Unclassified SDIO Database

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Accession #:U01522 AD #: -0-  
TITLE: A Simple Example Of An SADMT Architecture Specification

Author(s): Ardoin, C.D.; Edwards, S.H.; Linn, C.J., et al  
Date: 04/01/88 Pages:75 Report #: IDA P-2036  
Corp. Author: Institute For Defense Analyses, 1801 N. Beauregard St.,  
Alex., VA 22311  
Index Terms: Design Simulation BM/C3 Architecture Technology Target  
Platform Latitude Longitude Sensor Weapon Detection Vector

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Accession #:U01523 AD #: -0-  
TITLE: Sagen User's Guide

Author(s): Kappel, M.R.; Ardoin, C.D., et al  
Date: 04/01/88 Pages:53 Report #: IDA P-2028  
Corp. Author: Institute For Defense Analyses, 1801 N. Beauregard St.,  
Alex., VA 22311  
Index Terms: BM/C3 Simulation Linkage Technology Architecture  
Implementation Threat Weapon Assessment Sensor

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Accession #:U01524 AD #: -0-  
TITLE: SDI BM/C3 Networking Technology Program Plan

Author(s): Botta, R.F.; Noll, S.R.  
Date: -0- Pages:150 Report #: -0-  
Corp. Author: Institute For Defense Analyses, 1801 N. Beauregard St.,  
Alex., VA 22311  
Index Terms: SDIO Network Security Architecture Communication Topology  
Satellite Stability Development Biological Algorithm

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Accession #:U01525 AD #: -0-  
TITLE: Report on the Defense Science Board Task Force on Military Software  
Author(s): Fowler, C.A.  
Date: 09/01/87 Pages:78 Report #: -0-  
Corp. Author: Office of the Under Secretary of Defense for Acquisition,  
Wash., D.C. 20301  
Index Terms: Technology Acquisition Module Control Software DARPA  
Regulation Communication Transistor Algorithm

Accession #:U01526 AD #: -0-  
TITLE: ISI's SDI Architecture Simulator: User Interface and Maintenance  
Programming Environment  
Author(s): Mizell, D.; Coatney, S.; et al  
Date: 06/20/88 Pages:019 Report #: -0-  
Corp. Author: Information Sciences Institute, 4676 Admirally Way, Marina  
Del Ray, CA 90292  
Index Terms: Research Simulation Technology BM/C3 Defense Architecture  
Deployment Semaphore Sensor Laser Missile Threat

Accession #:U01527 AD #: -0-  
TITLE: On the Design of ISI's Initial Prototype SDI Architecture Simulator  
Author(s): Mizell, D.; Yu-Wen, T., et al  
Date: 03/01/88 Pages:58 Report #: ISI/RR-88-205  
Corp. Author: USC/ISI, 4676 Admirally Way, Marina del Rey, CA 90292  
Index Terms: Sensor Battle Weapon Missile Communication Defense Behavior  
Satellite Simulation Trajectory Capability Density Deployment

Accession #:U01528 AD #: -0-  
TITLE: Implementation Of A Distributed Adaptive Routing Algorithm On The  
INTEL iPSC  
Author(s): Farinelli, T.C. Capt, USAF  
Date: 11/01/87 Pages:102 Report #: AFIT/GCS/ENG/87D-11  
Corp. Author: Air Force Institute Of Technology, Wright-Patterson AFB, Ohio  
45433-6583  
Index Terms: Algorithm Allocation Traffic Cube Topology Communication Array

Accession #:U01529 AD #: -0-  
TITLE: Electronic Systems Division (ESD) BM/C3 Hypercube Applications Final  
Process Review (FPR)  
Author(s): -0-  
Date: 09/23/87 Pages:110 Report #: -0-  
Corp. Author: -0-  
Index Terms: Topology Connection Node Hypercube Architecture Application  
Millisecond Sensor Orbit Angle

Accession #:U01530 AD #: -0-  
TITLE: SDI System Architecture and Key Tradeoff Studies: Final  
Briefing-Phase II Study Plan  
Author(s): -0-  
Date: 06/06/85 Pages:90 Report #: -0-  
Corp. Author: TRW  
Index Terms: Threat Force Architecture Assesment Evolution Suppression  
Analysis Baseline Technology Acquisition Integration

Accession #:U01531 AD #: -0-  
TITLE: SDI System Architecture and Key Tradeoff Studies: Final Tech.  
Report-Affordability/Management Information Systems  
Author(s): -0-  
Date: 06/28/85 Pages:26 Report #: -0-  
Corp. Author: TRW Inc., Elec. & Def., One Space Park, Renado Beach, CA  
90278  
Index Terms: Management Cost Tracking Development Risk Analysis Threat  
Attack Cycle Warhead

Accession #:U01532 AD #: -0-  
TITLE: Strategic Defense Initiative System Architecture & Key Tradeoff  
Studies: Functional Flow Diagrams  
Author(s): -0-  
Date: 06/01/85 Pages:46 Report #: SSD 85-0080-6  
Corp. Author: Rockwell International, SSD, 2600 Westminster Blvd., Seal  
Beach, CA 90740-7644  
Index Terms: Deployment Communication Policy Analysis BM/C3 Logistic  
Architecture Methodology SATKA Weapon Force Mission ABM

Accession #:U01533 AD #: -0-  
TITLE: Low Cost Expendable Launch Vehicles Space Data Corporation Concepts  
Author(s): -0-  
Date: 05/11/87 Pages:30 Report #: SDC TM-3144  
Corp. Author: Space Data Corporation, 1333 W. 21st Street, Tempe, Arizona  
85282  
Index Terms: Subsystem Launch Control Vehicle Command Microprocessor  
Telemetry Guidance Acceleration

Accession #:U01534 AD #: -0-  
TITLE: SDI System Architecture And Key Tradeoff Studies - Appendix H.  
Preliminary Model Descriptions  
Author(s): -0-  
Date: 06/01/85 Pages:101 Report #: SSD 85-0080-14  
Corp. Author: Rockwell International, SSD, 2600 Westminster Blvd., Seal  
Beach, CA 90740-7644  
Index Terms: Policy Strategy Analysis Methodology Communication ABM  
Flouride Interdiction Optical Intelligence Attack Airborne

Accession #:U01535 AD #: -0-  
TITLE: SDI System Architecture And Key Tradeoff Studies - Appendix I. Cost  
Analysis and Methodology  
Author(s): -0-  
Date: 06/01/85 Pages:043 Report #: SSD 85-0080-15  
Corp. Author: Rockwell International, SSD, 2600 Westminster Blvd., Seal  
Beach, CA 90704-7644  
Index Terms: Mission Survivability Technology Innovation BM/C3  
Antisatellite Fire Airborne Sensor Reentry Surveillance DEW

Accession #:U01536 AD #: -0-  
TITLE: SDI System And Key Tradeoff Study - SDIA Final Tech. Rpt., Vol. IV  
Author(s): Tuffo, A.G.  
Date: 07/15/85 Pages:300 Report #: L068950  
Corp. Author: Lockheed Missiles & Space Company Inc., Sunnyvale, CA 94088  
Index Terms: Space Evolution Treaty SDI Mission Analysis Policy Soviet  
Threat Transition BMD Deterrence

Accession #:U01537 AD #: -0-  
TITLE: The C2 Internet Experiment

Author(s): Schroder, K.J.; Berets, J.C., et al  
Date: 06/01/88 Pages:044 Report #: RADC-TR-88-133  
Corp. Author: BBN Laboratories Inc., 10 Moulton Street, Cambridge, MA 02238

Index Terms: Methodology Configuration Application Development Control  
Architecture Communication Satellite DARPA Survivability

Accession #:U01538 AD #: -0-  
TITLE: The C2 System Internet Experiment - Functional Description

Author(s): Berets, J.C.; Mucci, R.A., et al  
Date: 06/01/88 Pages:048 Report #: RADC-TR-88-133  
Corp. Author: BBN Laboratories Inc., 10 Moulton Street, Cambridge, MA  
13441-5700

Index Terms: Architecture Application Communication Technology  
Authentication Development Integration

Accession #:U01539 AD #: -0-  
TITLE: The C2 System Internet Experiment System/Subsystem Specification

Author(s): Berets, J.C.; Mucci, R.A.; Schroder, K.J.  
Date: 06/01/88 Pages:122 Report #: RADC-TR-88-133  
Corp. Author: BBN Laboratories Inc., 10 Moulton Street, Cambridge, MA 02238

Index Terms: Heterogeneous Survivability Application CRONUS Prototype  
Configuration Logistic Simulation Target Fusio Trajectory

Accession #:U01540 AD #: -0-  
TITLE: Fourth In-Process Review For C2 Decision Aids Test Environment

Author(s): -0-  
Date: 09/22/87 Pages:375 Report #: TM-1142-05  
Corp. Author: ADS, 201 San Antonio Circle, Suite 286, Mountain View, CA  
94040-1289

Index Terms: Network Attack Aviation Simulation Development Configuration  
Communication BM/C2 Sensor Trajectory

Accession #:U01541 AD #: -0-  
TITLE: Kalman Filter Architectures For Battle Management

Author(s): -0-  
Date: 01/01/87 Pages:45 Report #: 420120  
Corp. Author: Systolic Systems Inc., 2240 N. First St., San Jose, CA  
95131-2310

Index Terms: Nonlinear Filter Decoupling Algorithm Formulation Sensor Error  
Analysis Development Technology Computation Feasibility

Accession #:U01542 AD #: -0-  
TITLE: Discrimination Using Polarized Signatures

Author(s): Bass, J.  
Date: 03/01/88 Pages:22 Report #: NRC-TR-88-025  
Corp. Author: Nichols Research Corporation, 4040 S. Memorial Pwky,  
Huntsville, AL 35802

Index Terms: Aerosol Polarization Scatter Target Optical Trajectory Sensor  
Calculation Error Feasibility Measurement

Accession #:U01543 AD #: -0-  
TITLE: Protection of Space-based Optical Componets by Hard, Adherent  
Diamond Coatings  
Author(s): Legg, K.O.  
Date: 02/03/88 Pages:25 Report #: STL 31738  
Corp. Author: Ionic Atlanta Inc., 1347 Spring St., N.W., Atlanta, GA 30309  
Index Terms: Coating Optical Plasma Sheath Argon Graphite Hydrogen Diamond  
Cathode Energy Beam Hydrocarbon

Accession #:U01544 AD #: -0-  
TITLE: BM/C3 Advanced Fault-Tolerant Computing System: Technical Report for  
Program Development Plan  
Author(s): -0-  
Date: -0- Pages:59 Report #: C86-581/101  
Corp. Author: Rockwell International, DE Operations, 3370 Miraloma Ave.,  
Anaheim, CA 92803  
Index Terms: Evaluation Development Architecture BM/C3 Computer Military  
Technology Application Surveillance Sensor Missile Space

Accession #:U01545 AD #: -0-  
TITLE: Database Management Algorithm for Advanced BMD Applications  
Author(s): Lan, M.T.; Leung, K.K.; An, J.M.  
Date: 04/01/85 Pages:114 Report #: CSD-850018  
Corp. Author: UCLA, Computer Science Dept., 405 Hilgard Ave., Los Angeles,  
CA 90024  
Index Terms: Concurrency Database Algorithm Communication Graph Protocol  
BMD Feasibility Allocation

Accession #:U01546 AD #: -0-  
TITLE: Programming With The Conversion Rules Description Language, CDRL  
Author(s): Sullivan, K.M.; de Maine, A.D.  
Date: 07/01/88 Pages:100 Report #: BMDTPLM-S07  
Corp. Author: Dept. of Computer Science & Engineering, Auburn Univ., AL  
36849  
Index Terms: Conversion Scan Fortran Language Architecture Byte Translation

Accession #:U01547 AD #: -0-  
TITLE: Ground-Based Radar-Experimental (GBR-X)  
Author(s): -0-  
Date: 03/30/88 Pages:450 Report #: SW-S-10-87  
Corp. Author: U.S. Army Strategic Defense Command, Huntsville, AL 35807  
Index Terms: Integration Discrimination Simulation Software Security  
Development Architecture

Accession #:U01548 AD #: -0-  
TITLE: Pratical Statistical Analysis for the Reliability Engineer  
Author(s): Dey, K.A.  
Date: 03/01/80 Pages:180 Report #: SOAR-2  
Corp. Author: IIT Research Inst., Reliability Analysis Cntr., Griffis AFB,  
NY 13441  
Index Terms: Data Analysis Parametric Regression Analogy Curve Binomial  
Application Histogram Tabulation

Accession #:U01549 AD #: -0-  
TITLE: A Primer for DoD Reliability, Maintainability and Safety Standards

Author(s): -0-  
Date: 03/02/88 Pages:210 Report #: PRIM-1  
Corp. Author: RAC, P.O. Box 4700, Rome, NY 13440-8200

Index Terms: Safety Production Microelectronic Development Analysis  
Military Application Thermal Hybrid Design Semiconductor

Accession #:U01550 AD #: -0-  
TITLE: SDI And Disturbed Systems

Author(s): -0-  
Date: 04/15/86 Pages:65 Report #: E-11157U  
Corp. Author: Dynamic Research Corporation, Wilimington, MA

Index Terms: Ballistic Missile Threat Countermeasure Sensor Computation  
Target Allocation Satellite Warhead Booster Radiation

Accession #:U01551 AD #: -0-  
TITLE: Test-Bed Support For Fault-Tolerant Computer Evaluation

Author(s): Lala, J.H., et al  
Date: 09/01/86 Pages:058 Report #: CSDL-R-1900  
Corp. Author: The Charles Stark Draper Lab Inc., 555 Technology Square,  
Bedford, MA 02139

Index Terms: BM/C3 Weapon Computation Evaluation ASDC Architecture Network  
Taxonomy Topology Application Radiation Reduction Attack

Accession #:U01552 AD #: -0-  
TITLE: Japanese Technology Evaluation Program (JTECH): Panel Report On  
Advanced Computing In Japan

Author(s): Denicoff, M.; Goguen, J., et al  
Date: 12/01/87 Pages:65 Report #: -0-  
Corp. Author: SAIC, 1710 Goodridge Drive, McLean, VA 22102

Index Terms: Research Technology Communication Error Computer Military  
Reduction Database

Accession #:U01553 AD #: -0-  
TITLE: Preliminary Report On The Formal Analysis Of The Draper FTP Hardware  
And Software Using ITP

Author(s): Chisolm, G.H.; Kijaich, J., et al  
Date: 09/01/85 Pages:021 Report #: ANL/MCS-TM-59  
Corp. Author: Argonne National Laboratory, University of Chicago

Index Terms: Communication Software Application Transition Flow Data  
Feasibility Sensor Tolerance

Accession #:U01554 AD #: -0-  
TITLE: SDIO Communications Workshop Briefing

Author(s): Young, S.Y.; Janiski, T.; Murphy, S.  
Date: 10/01/86 Pages:040 Report #: -0-  
Corp. Author: Ford Aerospace & Communications Corporation

Index Terms: Assessment Architecture Communication Performance Model  
Network Midcourse Battle ICBM Space Frequency Weather

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Accession #:U01555 AD #: -0-  
TITLE: Vertically Partitioned Object-Oriented Sys. Architecture for  
Reliable, High Performance Parallel Dist. Systems  
Author(s): Browne, J.C.  
Date: 08/19/86 Pages:014 Report #: -0-  
Corp. Author: Univ. of Texas at Austin, Dept. of Computer Science, Austin,  
TX 78712  
Index Terms: Database Management Detection Atomicity Computation  
Architecture Application Formulation

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Accession #:U01556 AD #: -0-  
TITLE: A Performance Model Of A Fault-Tolerant Distributed System For  
Evaluation Reliability Mechanisms  
Author(s): Browne, J.C.  
Date: -0- Pages:0016 Report #: -0-  
Corp. Author: Information Research Associates, Austin, Texas 78712  
Index Terms: Simulation Protocol Failure Communication Node Transmission  
Degradation Storage Concurrency

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Accession #:U01557 AD #: -0-  
TITLE: Formal Verification of Properties of Digital Systems Using an  
Automated Reasoning System  
Author(s): Kijiach, J.; Wojcik, A.S.; Smith, B.T.  
Date: -0- Pages:021 Report #: -0-  
Corp. Author: Office of Energy Research, U.S. Dept. of Energy  
Index Terms: Connection Template Circuit Topology Automation Analysis  
Tolerance Isolation Sensor Application

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Accession #:U01558 AD #: -0-  
TITLE: Zeus: An Object-Oriented Distributed Operating System For Reliable  
Applications  
Author(s): Browne, J.C.; Dutton, J.E., et al  
Date: 10/25/83 Pages:030 Report #: -0-  
Corp. Author: Information Research Associates, Austin, TX 78705  
Index Terms: Simulation Linguistic Atomic Capability Hostile Command  
Control Node Execution Database

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Accession #:U01559 AD #: -0-  
TITLE: Design for Integrity on a new Multiprocessor Systems Architecture  
Author(s): Manning, B.W.  
Date: -0- Pages:026 Report #: BWM 3-87  
Corp. Author: UNYSIS, St. Paul, MN  
Index Terms: Memory Detection Reconfiguration Isolation Synchronization  
Logic Error Node Control Tolerance

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Accession #:U01560 AD #: -0-  
TITLE: The Scattered Decomposition for Finite Elements  
Author(s): Otto, S.; Morison, R.  
Date: 05/19/85 Pages:80 Report #: -0-  
Corp. Author: Caltech Concurrent Computer Group, Pasadena, CA 91125  
Index Terms: Integration Data Lattice Decomposition Algorithm Communication  
Theory Imbalance Calculation Development

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Accession #:U01561 AD #: -0-

TITLE: BM/C3 Working Group Minutes

Author(s): -0-

Date: 10/17/86 Pages:080 Report #: -0-

Corp. Author: Rome Air Development Center

Index Terms: Software Mutation Acquisition Threat Assessment Memory  
Algorithm Sensor Surveillance ERIS HEDI LEDI Countermeasure

Accession #:U01562 AD #: -0-

TITLE: Concurrent Computation Project: Annual Report 1983-1984 & Recent  
Documentation-Volume II Applications

Author(s): -0-

Date: 02/01/85 Pages:110 Report #: -0-

Corp. Author: Caltech, Pasadena, CA 91125

Index Terms: Comonet Computation Processor Configuration Energy Cray Node  
Analysis Communication Algorithm Application

Accession #:U01563 AD #: -0-

TITLE: SDI System Architecture and Key Tradeoff Studies: Final Phase II  
Study Plan

Author(s): -0-

Date: 06/28/85 Pages:035 Report #: 45377-6050-UT-00

Corp. Author: TRW Inc., Electronic & Defense, One Space Park, Renado Beach,  
CA 90278

Index Terms: Countermeasure Threat NTF Threat Methodology Technology Test &  
Evaluation Development Integration Analysis BM/C3 Simulation

Accession #:U01564 AD #: -0-

TITLE: BM/C3 Space-Based Distributed Processing Network Experiment

Author(s): -0-

Date: -0- Pages:026 Report #: -0-

Corp. Author: Cooperating Space Systems

Index Terms: BM/C3 Warning Radio FEMA DARPA Network Communication Array  
Radio Guidance Antenna Emulation

Accession #:U01565 AD #: -0-

TITLE: The Role IDA/STD Plays in Government - Strategic Defense

Author(s): -0-

Date: -0- Pages:020 Report #: -0-

Corp. Author: Inst. for Defense Analysis, 1801 N. Beauregard St., Alex., VA  
22209

Index Terms: Sensor Threat Architecture Interface Survivability Command  
Navigation BM/C3 Policy Technology Algorithm

Accession #:U01566 AD #: -0-

TITLE: Defeated by a Maze: The Soviet Economy and Its Defense-Industrial  
Sector

Author(s): Badgett, L.D.

Date: 10/01/88 Pages:73 Report #: RAND/N-2644-NA

Corp. Author: The RAND Corporation, 1700 Main St., P.O. Box 2138, Santa  
Monica, CA 90406

Index Terms: CIA Soviet Union West Control Innovation Economy Theory  
Research Development Empire Superpower Analysis

Accession #:U01567 AD #: -0-  
TITLE: NBS Standard Reference Materials Catalog 1988-89

Author(s): Seward, R.W.  
Date: 01/01/88 Pages:148 Report #: NBS Pub. 260  
Corp. Author: U.S. Department of Commerce, NBS, Gaithersburg, MD 20899

Index Terms: Development Alloy Steel Blast Gases Zinc Simulation X-ray  
Lubrication Oxidation Research Radiation

Accession #:U01568 AD #: -0-  
TITLE: The Strategic Defense Initiative

Author(s): -0-  
Date: 06/01/85 Pages:004 Report #: SRN 129  
Corp. Author: U.S. Dept. of State, Bureau of Public Affairs, Washington,  
D.C.  
Index Terms: Deterrence ABM Treaty SDI Aggression Ally Military Reduction  
Soviet Union Nuclear Arms Research

Accession #:U01569 AD #: -0-  
TITLE: SDI: A Safer Way to Keep the Peace

Author(s): -0-  
Date: 08/06/86 Pages:003 Report #: -0-  
Corp. Author: Department of Defense, Washington, D.C.

Index Terms: Military Technology SDI Destruction Retaliation Security  
Compromise Missile Violation Weapon

Accession #:U01570 AD #: -0-  
TITLE: Proposed DMS Message Interface: Revision

Author(s): Lysne, M.A..  
Date: 09/29/88 Pages:80 Report #: -0-  
Corp. Author: SYSCON Corporation, 1050 Thomas Jefferson St., N.W.,  
Washington, D.C. 20007  
Index Terms: Sensor Kill Integer Launch Impact Velocity Decoy

Accession #:U01571 AD #: -0-  
TITLE: NRL-TSS/CSCI STUBS Common Functions Specification

Author(s): McConagha, P.; Grimm, T.; Chadbourne, C.  
Date: -0- Pages:10 Report #: -0-  
Corp. Author: LOCUS, Inc.

Index Terms: Testbed Simulation Integration Development Isolation  
Communication Battle Management

Accession #:U01572 AD #: -0-  
TITLE: Specification for TSS Interface Control Documents (TICDs)

Author(s): -0-  
Date: 07/25/88 Pages:25 Report #: NRL 5570  
Corp. Author: Naval Research Laboratory

Index Terms: Methodology Terminology Documentation Communication Protocol  
Integration



Accession #:U01573 AD #: -0-  
TITLE: SDI/Tracker Correlator Testbed Design Document: Second Edition

Author(s): -0-  
Date: 07/01/88 Pages:40 Report #: -0-  
Corp. Author: Ball Systems Engineering Division

Index Terms: Target Matrix Midcourse Development Simulation Launch Sensor  
Error Ratio Velocity Detonation Fire Control

Accession #:U01574 AD #: -0-  
TITLE: Testbed Implementation Document: Volume One

Author(s): Erbacher, J.A.  
Date: 07/01/88 Pages:160 Report #: R-074-88  
Corp. Author: Ball Systems Engineering Division

Index Terms: Distance Logic Data Software Flow Development Node Target  
Velocity Ratio Cluster Sensor Radar

Accession #:U01575 AD #: -0-  
TITLE: Research for Adaptive Dist. Network Management System: Algorithm  
Research Report

Author(s): Cain, J.B.; Knoke, P.J., et al  
Date: 04/15/88 Pages:39 Report #: -0-  
Corp. Author: Harris Government Aerospace Sys. Div., P.O. Box 94000,  
Melborne, FL 32902

Index Terms: Triconnection Algorithm Network Radio SDI Satellite Antenna  
Calculation Topography Isolation

Accession #:U01576 AD #: -0-  
TITLE: Research for Adaptive Dist. Network Management Sys.: Exploitation  
of Parallelism In Network Management Algorithms

Author(s): Cain, J.B.; Noakes, M.D.; Nieto, J.W., et al  
Date: 05/26/88 Pages:40 Report #: -0-  
Corp. Author: Harris Government Aerospace Sys. Div., P.O. Box 94000,  
Melborne, FL 32902

Index Terms: Link Implementation Parallel Traffic Broadcast Evaluation  
Architecture Application Multiprocessor Algorithm

Accession #:U01577 AD #: -0-  
TITLE: Research for Adaptive Dist. Network Management System: Algorithm  
Test Plan And Results

Author(s): Shaikh, M.A.; Knoke, P.J.; Lawandales, E.F.  
Date: 04/18/88 Pages:65 Report #: -0-  
Corp. Author: Harris Government Aerospace Sys. Div., P.O. Box 94000,  
Melborne, FL 32902

Index Terms: Analysis Node Reduction Survivability Weapon Modular Algorithm  
Test Defense Suppression Battle Simulation

Accession #:U01578 AD #: -0-  
TITLE: Research for Adaptive Dist. Network Management Sys.: Harris  
Simulator Document Version 3.0

Author(s): Kryst, T.E.; Knoke, P.J.; Lawandales, E.F.  
Date: 04/18/88 Pages:173 Report #: -0-  
Corp. Author: Harris Government Aerospace Sys. Div., P.O. Box 94000,  
Melborne, FL 32902

Index Terms: Architecture Configuration Ballistic Missile Sensor Control  
Algorithm Transmission Node Simulator

Accession #:U01579 AD #: -0-  
TITLE: Research for Adaptive Dist. Network Management Sys.: Recommended  
Algorithm Design Changes  
Author(s): Cain, J.B.; Knoke, P.J.; Lawandales, E.F.  
Date: 05/13/88 Pages:25 Report #: -0-  
Corp. Author: Harris Government Aerospace Sys. Div., P.O. Box 94000,  
Melborne, FL 32902  
Index Terms: Storage Algorithm Network Link Simulator Evaluation  
Communication Architecture Topology Cluster

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Accession #:U01580 AD #: -0-  
TITLE: Strategic Defense Initiative (SDI) Program At Oak Ridge  
  
Author(s): Bartine, D.  
Date: 06/01/87 Pages:020 Report #: -0-  
Corp. Author: Martin Marietta Energy Systems, Inc.  
  
Index Terms: Structure Optics Innovation Technology Space Survivability  
Kinetic Energy Development Beam Application

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Accession #:U01581 AD #: -0-  
TITLE: System Engineering Document - Volume I (First Revision)  
  
Author(s): -0-  
Date: 12/31/87 Pages:65 Report #: -0-  
Corp. Author: Applied Technology Assoc., 5510 Cherokee Avenue, Suite 310,  
Alex., VA 22312  
Index Terms: Sensor Target Discrimination Metric Perifocal Orbit Plane  
Conversion Threat Infrared Communication Velocity Algorithm

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Accession #:U01582 AD #: -0-  
TITLE: System Engineering Document - Volume One (Second Revision)  
  
Author(s): -0-  
Date: 02/03/88 Pages:120 Report #: -0-  
Corp. Author: Applied Technology Assoc., Inc., 5510 Cherokee Ave., Suite  
310, Alex., VA 22312  
Index Terms: Satellite Constellation Communication Design Boost Phase Orbit  
Algorithm Error Velocity Radar Motion Threat Sensor

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Accession #:U01583 AD #: -0-  
TITLE: System Interface Requirements Specifications For The NRL Testbed  
Simulation System  
Author(s): -0-  
Date: 02/12/88 Pages:134 Report #: -0-  
Corp. Author: Applied Technology Assoc., Inc., 5510 Cherokee Ave., Alex.,  
VA 22312  
Index Terms: Battle Management Assessment Data Algorithm Control Command  
Kill Allocation Communication Weapon

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Accession #:U01584 AD #: -0-  
TITLE: Fourth Conference on Artificial Intelligence for Space Applications  
  
Author(s): O'Dell, S.L.; Denton, J.S.; Vereen, M.  
Date: 11/16/88 Pages:500 Report #: -0-  
Corp. Author: NASA, G.C. Marshall Space Flight Cntr., Al  
  
Index Terms: Analysis Development Architecture Simulation Sensor Theory  
Robot Application Communication Integration

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Accession #:U01585 AD #: -0-  
TITLE: Local/Global Control Integration

Author(s): Stankovic, J.A.; Townsley, D.; Rommel, C.G., et al  
Date: 08/01/88 Pages:284 Report #: -0-  
Corp. Author: Univ. of MA, Dept. of Computer & Info. Science, Amherst, MA  
01003  
Index Terms: Analysis Algorithm Node Policy Communication Logic Allocation  
Ratio Simulation

Accession #:U01586 AD #: -0-  
TITLE: Management Plan for the Multiple Satellite System Program (DRAFT)

Author(s): -0-  
Date: 01/31/86 Pages:49 Report #: -0-  
Corp. Author: -0-

Index Terms: Phase II Crosslink Architecture Algorithm Protocol  
Communication Simulation Integration Radio Antenna Risk

Accession #:U01587 AD #: -0-  
TITLE: Technical and Management Proposal For The MSS End-To-End Simulation  
Program

Author(s): -0-  
Date: 06/17/87 Pages:105 Report #: -0-  
Corp. Author: CONTEL, 1300 Quince Orchard Blvd., Gaithersburg, MD 20878

Index Terms: Matrix Simulator Satellite Analysis Configuration Orbit  
Geometry Computation Thermal Telemetry Conversion

Accession #:U01588 AD #: -0-  
TITLE: Multiple Satellite System Program System Performance & Trade-Off  
Study Final Technical Report

Author(s): Bartlett, R.; Blum, D.; Giessler, D., et al  
Date: 03/18/87 Pages:205 Report #: 1010003  
Corp. Author: SPACECOM, 1300 Quince Orchard Blvd., Gaithersburg, MD 20878

Index Terms: Simulation Network Satellite Development Allocation Capacity  
Electron Integration Control

Accession #:U01589 AD #: -0-  
TITLE: Multiple Satellite System Program System Performance & Trade-Off  
Study Final Technical Report

Author(s): Bartlett, R.; Blum, D.; Giessler, D., et al  
Date: 04/20/87 Pages:207 Report #: 1010003 REV. B  
Corp. Author: SPACECOM, 1300 Quince Orchard Blvd., Gaithersburg, MD 20878

Index Terms: Satellite Communication Milestone Battle Nuclear Degradation  
Radiation Deployment Automation Traceability Transmitter

Accession #:U01590 AD #: -0-  
TITLE: Multiple Satellite System Program System Performance & Trade-Off  
Study Final Technical Report (INTERM)

Author(s): Kumar, N.; Miles, N.; Williams, S., et al  
Date: 06/18/86 Pages:103 Report #: 1010002  
Corp. Author: SPACECOM, 1300 Quince Orchard Blvd., Gaithersburg, MD 20878

Index Terms: Evaluation Automation Hardware Control Integration  
Architecture Subsystem Communication Technology Task

Accession #:U01591 AD #: -0-  
TITLE: A Family Of Starbird Low-Cost Orbital Vehicles

Author(s): -0-  
Date: 05/26/87 Pages:115 Report #: SDC TM-3223  
Corp. Author: Space Data Corporation, 1333 W. 21st St., Temple, Arizona  
85282  
Index Terms: Orbit Probe Trajectory Configuration Launch Propellant Vehicle  
Payload Velocity Gravity Deployment

Accession #:U01592 AD #: -0-  
TITLE: ASTRO Report: MSSP - Satellite Integration II Design Plan  
(Preliminary Draft)

Author(s): -0-  
Date: 08/30/86 Pages:71 Report #: -0-  
Corp. Author: RCA Astro-Electronics

Index Terms: Constellation Configuration Baseline Integration Satellite  
Telemetry Risk Development Phase III Oxygen Radiation

Accession #:U01593 AD #: -0-  
TITLE: ACTS Battle Management Communication Experiments

Author(s): -0-  
Date: 06/20/86 Pages:37 Report #: -0-  
Corp. Author: RCA Aerospace & Defense, ASTRO-Elec. Div., Princeton, NJ

Index Terms: SDIO BM/C Attack Weapon Architecture Detection Destruction  
Surveillance Location Technology Hardware Communication

Accession #:U01594 AD #: -0-  
TITLE: ACTS Battle Management Communication Experiments

Author(s): -0-  
Date: 11/14/86 Pages:40 Report #: -0-  
Corp. Author: RCA Astro Space Division, P.O. Box 800, Princeton, NJ

Index Terms: SDIO Laser Weapon Automation Detection Surveillance Location  
Hostility Hardware Communication Software

Accession #:U01595 AD #: -0-  
TITLE: Advanced Communications Technology Satellite Program

Author(s): Schertler, R.J.  
Date: -0- Pages:012 Report #: -0-  
Corp. Author: NASA, Lewis Research Center, 21000 Brookpark Rd., Cleveland,  
OH 44135

Index Terms: Geostation Orbit Technology Threat Satellite Television Beam  
Voice Data Telecommunication Development Baseband

Accession #:U01596 AD #: -0-  
TITLE: Multiple Satellite System (MSS) Requirement & Performance Analysis

Author(s): Lehman, J.; Marshall, A.; Cantor, M., et al  
Date: 06/13/83 Pages:293 Report #: ESL-TM1632  
Corp. Author: ESL Inc., 495 Java Drive, Sunnyvale, CA 94086

Index Terms: Satellite Acquisition Demonstration Antenna Simulation Cell  
Orbit Assembly Hardware Array Architecture Configuration

---

Accession #:U01597 AD #: -0-  
TITLE: Space-Based Laser Phase II Special Study #2 - SBL Space Experiment  
Annex A: Strawman SOW Alpha/Lode/Lamp Technology Program  
Author(s): Wright, J.P.  
Date: 09/17/85 Pages:013 Report #: SSD 850-0119-2  
Corp. Author: Rockwell International, 2600 Westminster Blvd., Seal Beach,  
CA 90740-7644  
Index Terms: DEW Integration Development Application Isolation Beacon  
Control Launch Analysis Evaluation Allocation

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Accession #:U01598 AD #: -0-  
TITLE: Space-Based Laser Phase II Special Study #2 - SBL Space Experiment  
Annex B: Strawman SOW Unconstrained Technology Program  
Author(s): Wright, J.P.  
Date: 09/17/85 Pages:012 Report #: SSD 850-0119-2  
Corp. Author: Rockwell International, 2600 Westminster Blvd., Seal Beach,  
CA 90740-7644  
Index Terms: DEW Integration Development Application Isolation Beacon  
Launch Analysis Evaluation Allocation Laser Configuration

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Accession #:U01599 AD #: -0-  
TITLE: Information Resources Plan  
  
Author(s): -0-  
Date: 10/31/88 Pages:140 Report #: -0-  
Corp. Author: General Electric Co./Aerospace Bus. Group, SSD, P.O. Box  
8555, Phil., PA 19101  
Index Terms: Survey Development Analysis Evolution Architecture  
Communication NTB Army USAF NASA Automation Database

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Accession #:U01600 AD #: -0-  
TITLE: SDS CALS Implementation Study  
  
Author(s): -0-  
Date: 10/31/88 Pages:125 Report #: -0-  
Corp. Author: General Electric Co./Aerospace Bus. Group, SSD, P.O. Box  
8555, Phil., PA 19101  
Index Terms: Development DoD Architecture Communication NTB USAF NASA  
Integration Methodology Technology

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ACCESSION #: UB0137

DATE: 01/01/88

TITLE: Major Defense Systems Producers U.S.A.

AUTHOR(s): Noyes, R.; De Renzo, D.J.

PUBLISHER: Noyes Data Corporation, Mill Road, Park Ridge, New Jersey  
07656

SUBJTERMS: Drone Target Warfare Communication Integration Satellite  
Submarine Aircraft Rotary Countermeasure Missile

ACCESSION #: UB0297

DATE: 01/01/88

TITLE: The Other Side of Arms Control: Soviet Objectives in the  
Gorbachev Era

AUTHOR(s): Sherr, Allen B.

PUBLISHER: Allen & Unwin, 8 Winchester Place, Winchester, MA 01890

SUBJTERMS: Policy Evolution Economic Reform Nuclear INF Treaty Soviet  
Union Baseline World War SDI

ACCESSION #: UB0309

DATE: 01/01/88

TITLE: Nuclear Strategizing: Deterrence and Reality

AUTHOR(s): Cimbala, S.J.

PUBLISHER: Praeger Publishers, One Madison Ave., New York, New York  
10010

SUBJTERMS: Termination War Deterrence Arms Control Policy Missile Theory  
Blitzkrieg Cuba Soviet Union United States Force Threat NATO

ACCESSION #: UB0310

DATE: 01/01/88

TITLE: Strategic Nuclear Targeting

AUTHOR(s): Ball, D.; Richelson, J.

PUBLISHER: Cornell United Press

SUBJTERMS: Nuclear War Development Counterpower Energy Termination C3I  
Antisatellite FEMA Ballistic Missile Attack Reentry Weapon

ACCESSION #: UB0311

DATE: 01/01/88

TITLE: Nuclear Crisis: A Dangerous Illusion

AUTHOR(s): Lebow, R.N.

PUBLISHER: Cornell University Press

SUBJTERMS: Control Miscalculation Stability Soviet Union Germany  
Airstrike BMD ICBM Risk Military Radiation U.S. Cuba Balance

ACCESSION #: UB0312

DATE: 01/01/88

TITLE: Jane's Weapons System: 1988 - 1989

AUTHOR(s): Blake, B.

PUBLISHER: Jane's Information Group, 1340 Braddock Pl., Suite 300,  
Alex., VA 22313-2036

SUBJTERMS: Innovation Aircraft Optic Electronic Scope Pakistan  
Communication Radar Technology Alert Defense

ACCESSION #: UB0313

DATE: 01/01/88

TITLE: Compliance and the Future of Arms Control

AUTHOR(s): Duffy, G.; Dalton, G.; State, M.; Sartori, L.

PUBLISHER: Center for International Security and Arms Control, Stanford  
University

SUBJTERMS: Radar PAWS ICBM Nuclear SDI ABM Treaty Soviet Union War  
Balance Conflict Security Erosion Launcher Policy

ACCESSION #: UB0314

DATE: 01/01/88

TITLE: Defense Budget/RDT&E: Fiscal Year 1988 - 1989

AUTHOR(s): Cahill, N.; Leard, R.E.

PUBLISHER: Carroll Publishing Co., 1058 Thomas Jefferson St., N.W.,  
Washington, D.C. 20007

SUBJTERMS: Congress Support Tactical Mission Intelligence Technology  
Development Communication Defense NSA SDIO

ACCESSION #: UB0315

DATE: 01/01/88

TITLE: Defense Budget/Procurement: Fiscal Year 1988 - 1989

AUTHOR(s): Cahill, N.; Leard, R.E.

PUBLISHER: Carroll Publishing Co., 1058 Thomas Jefferson St., NW  
Washington, D.C. 20007

SUBJTERMS: Aircraft Army Combat Ammunition Production Telecommunication  
Support Missile Electronics Ordnance Weapon Destruction

ACCESSION #: UB0316

DATE: 01/01/88

TITLE: Defense Organization Service/RDT&E - Army & Air Force

AUTHOR(s): Cahill, N.; Leard, R.E.

PUBLISHER: Carroll Publishing Co., 1058 Thomas Jefferson St., NW  
Washington, D.C. 20007

SUBJTERMS: Technology Development Tactical Communication Intelligence  
Defense Support Vision Training Weapon Automation Missile

ACCESSION #: UB0317

DATE: 01/01/88

TITLE: Defense Organization Service/RDT&E - Navy & Department of Defense

AUTHOR(s): Cahill, N.; Leard, R.E.

PUBLISHER: Carroll Publishing Co., 1058 Thomas Jefferson St., NW  
Washington, D.C. 20007

SUBJTERMS: Airborne Conversion Sonar Threat Marine Corps Submarine C3  
Survivability Technology Radiation Missile Countermeasure War

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ACCESSION #: UB0323

DATE: 01/01/88

TITLE: Verification and Compliance: A Problem-Solving Approach

AUTHOR(s): Krepon, M.; Umbeager, M.

PUBLISHER: Ballenger Publishing Co., Cambridge, MA

SUBJTERMS: INF Treaty Limitation Compliance U.S. Policy U.S.S.R. Missile  
Warsaw Attack Communication Satellite NSC Delegation

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